

MAC TOOLS



National distribution of **MAC TOOLS**
is made possible by the following
inter-related corporations:

THE **M**ECHANICS' TOOL & FORGE CO.
Sabina, Ohio

MAC ALLIED TOOLS CORPORATION
Tallmadge, Ohio

THE **C**LINTON TOOL CO.
Sabina, Ohio



Your MAC distributor will serve you ...
MAC distributors — nation-wide

Catalog No. 52

THE tools as illustrated in this catalog are sold by regular authorized "MAC DISTRIBUTORS" throughout the entire United States, serving the "PROFESSIONAL MECHANIC".

Our policy is and shall continue to be one enabling us to furnish our customers the Finest Tool made at the most reasonable price possible. Our method of selling makes possible better Service and Quality Tools by eliminating all possible overhead.

"MAC TOOLS" are sold everywhere. Look for the trade name as shown on the cover pages of this catalog.

In purchasing these tools you will insure yourself the ownership of tools of Proven

Quality, with continued unequalled service by experienced and trained representatives. Management of THE MAC TOOL

ORGANIZATION

is by men who have been in the Mechanics Hand Tools business for many, many years. They are equipped with valuable experience which assures sound judgment with regard to the tools in our line being of proper design and quality for their intended use.

We have grown rapidly due to quality of "MAC TOOLS" and service given by "OUR DISTRIBUTORS", as well as to the confidence our customers have given

our line. We thank you for this support and hope to serve you long and well.

GUARANTEE

All tools in our line are designed and manufactured to withstand requirements of the job for which they were intended.

Our tools are guaranteed to do this job. Please note certain tools shown are marked "Not Guaranteed" which is necessary because of the nature of the tool and which is customary. Every tool we sell is guaranteed against defective workmanship or material and will be replaced when proven so within these limits.

We cannot replace tools that are worn out because of use; tools made obsolete by changes in design required by new model cars; tools which have been abused or used carelessly; or tools which the mechanic has attempted to redesign.

We know the mechanic will be reasonable and fair in the matter of replacements, as so shall we.

Final judgment as to whether a tool should be replaced rests with our adjuster working through our Authorized MAC Distributors. The policy as to guarantee is for your protection and will be carried out on the basis of mutual fair dealing.



Screw Drivers

In the opinions of the professional mechanics throughout the nation, MAC screw drivers are the toughest and best screw drivers on the market today. They like that MAC-GRIP handle (the square handle with the notched corners) because it fits their hand better and gives them a firmer grip and greater turning power. They like the square shanked blade because it never turns in the handle, and the long forged taper of the blade for it can be redressed as the occasion demands.

MAC screw drivers can be readily identified by the patented MAC-GRIP handle as well as the trade name MAC stamped on ferrule. Make certain that you are securing MAC drivers. THEY ARE SUPERIOR.

Tool No.	Shank Size	Blade Length	Tip Thickness	Overall Length
G1	1/8"	1"	.025"	3-1/2"
G2	1/8"	2"	.025"	4-1/2"
G4	1/8"	4"	.025"	6-1/2"
G6	1/8"	6"	.025"	8-1/2"
H1	3/16"	1" Stub	.035"	2-3/8"
H2	3/16"	2"	.035"	6"
H4	3/16"	4"	.035"	8"
H8	3/16"	8"	.035"	12"
H12	3/16"	12"	.035"	16"
I2	1/4"	1-1/2" Stub	.045"	3-3/4"
I4	1/4"	4"	.045"	9"
I6	1/4"	6"	.045"	11"
I10	1/4"	10"	.045"	15"
I24	1/4"	24"	.045"	29"
J2	5/16"	2-1/2" Stub	.055"	6"
J4	5/16"	4"	.055"	10"
J8	5/16"	8"	.055"	15"
J10	5/16"	10"	.055"	16"

Heavy Duty Screw Drivers With Steel Thru Handles

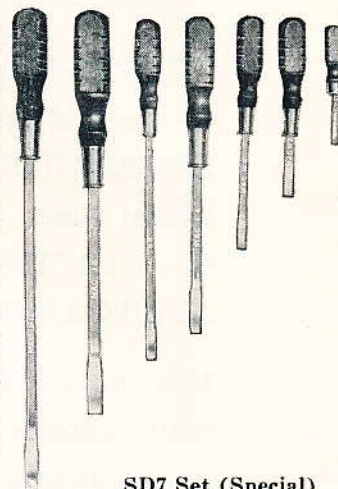


These heavy duty screw drivers with Steel-Thru-Handle were designed to meet the need for a screw driver where greater strength is required and to withstand particularly hard and rough usage. This series of heavy duty screw drivers meet all the requirements for such a driver. Furnished with the MAC-GRIP handle.

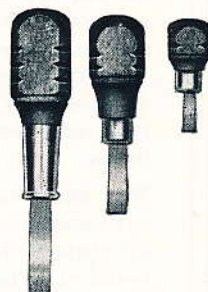
Tool No.	Shank Size	Blade Length	Tip Thickness	Overall Length
K6	3/8"	6"	.065"	13"
K12	3/8"	12"	.065"	19"
K15	3/8"	15"	.065"	22"
L45	7/16"	4"	.075"	11"
L6	7/16"	6"	.075"	13"
L10	7/16"	10"	.075"	17"
L18	7/16"	18"	.075"	25"

Special Screw Driver Set

This special set of MAC screw drivers is the ultimate in screw driver bargains. It is the best and most complete set ever offered at anywhere near this extremely low price. Thousands of these sets have been purchased throughout the United States each year. Mechanics have long since discovered the savings that can be made by buying their screw drivers in sets. This set is made up of seven of the most popular sizes as follows: G2, H2, H4, H8, I6, I10 and J8.



SD7 Set (Special)



Stub Screw Drivers

MAC stub screw drivers in three sizes always a very popular tool in every mechanic's tool box. They are: H1, I2, and J2.

Tappet Adjusting Screw Driver

The S8 screw driver, designed for adjusting overhead valve tappets, is notched to fit the slot in the adjusting screw so that it will not slip out of place while the engine is running.



S8



Clutch Type Screw Drivers

(Figure 8)

**Alloy Steel Blades,
Mac Grip Handle
(Not Guaranteed)**

This type driver is milled straight at the point so that it can be dressed down without changing the size of the point at any time thus giving long wear.

Plastic Handle Tool No.	Wood Handle Tool No.	Shank Size	Blade Length	Point Size	Overall Length
P992	2992	3/16"	2-1/2"	1/8"	6-1/2"
P993	2993	1/4"	3-3/4"	5/32"	9"
P994	2994	1/4"	3-3/4"	3/16"	9"
P995	2995	5/16"	5-1/2"	1/4"	11-1/2"
P997	2997	3/8"	6"	5/16"	12"
P998	2998	3/8"	6"	3/8"	12"
SD5	Set of five drivers with wooden handles.				
SD5P	Set of five drivers with plastic handles.				
(Sets include point sizes from 1/8" to 1/4" inc.)					



Genuine Phillips Screw Drivers Super Steel Blades, Mac-Grip Handle (Not Guaranteed)



Phillips drivers are available in either the MAC-GRIP wood or plastic handles. Furnished with only the Phillips super steel blades.

Wood Handle Tool No.	Plastic Handle Tool No.	Shank Size	Blade Length	Point Size	Overall Length
	P200	1/8"	2-1/4"	#0	5"
1201	P201	3/16"	2-1/2"	#1	6-1/4"
1211		3/16"	7/8"	#1	3"
1212		1/4"	1-1/4"	#2	3-3/4"
1202	P202	1/4"	3-1/2"	#2	8"
1203	P203	5/16"	5"	#3	10-1/2"
1204	P204	3/8"	8"	#4	14-1/2"

Wood Screw Driver Handles Special MAC-GRIP (Patented)

This square type Mac-Grip handle is especially designed for that "Perfect Grip."

All handles are made from a special wood with a grain that will not split except when they are abused. The wood is tough and strong.

Handle No.	Blade Size
S0H	1/8" Sq. Blade
S1H	3/16" Sq. Blade
S4H	1/4" Sq. Blade
S2H	1/4" Sq. Stub Blade
S5H	5/16" Sq. Blade
S55H	5/16" Sq. Blade, Heavy Stub
S81H	3/8" Sq. Blade
S82H	7/16" Sq. Blade

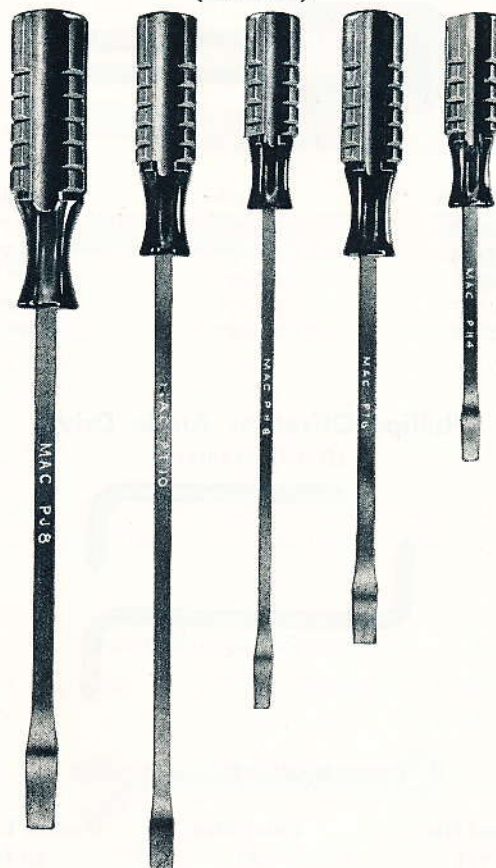
Plastic Screw Driver Handles Square Type Handle With Mac-Grip (Patented)

Shockproof plastic Screw Driver Handles with the Mac-Grip Drilled to fit square bits in sizes shown below.



Tool No.	Size Blade
PS0	1/8"
PS1	3/16"
PS2 (Stub)	1/4"
PS4	1/4"
PS5	5/16"
PS81	3/8"
PS82	7/16"

Plastic Handle Screw Drivers Square Type Mac-Grip Handle (Patented)



Tool No.	Shank Size	Blade Length	Tool No.	Shank Size	Blade Length
PG1	1/8"	1"	PI24	1/4"	24"
PG2	1/8"	2"	PJ4	5/16"	4"
PG4	1/8"	4"	PJ8	5/16"	8"
PG6	1/8"	6"	PJ10	5/16"	10"
PH2	3/16"	2"	PK6	3/8"	6"
PH4	3/16"	4"	PK12	3/8"	12"
PH8	3/16"	8"	PK15	3/8"	15"
PH12	3/16"	12"	PL45	7/16"	4"
PI2	1/4"	Stub 2"	PL6	7/16"	6"
PI4	1/4"	4"	PL10	7/16"	10"
PI6	1/4"	6"	PL18	7/16"	18"
PI10	1/4"	10"			

SP5—Special Set shown above of five plastic handle Screw Drivers consists of PH4, PH8, PI-6, PI-10, PJ8.

Phillips Bits — 3/8" Service Drive (Not Guaranteed)



Tool No.	Length	Point Size
832	2 5/8"	No. 2
833	2 5/8"	No. 3
834	2 5/8"	No. 4



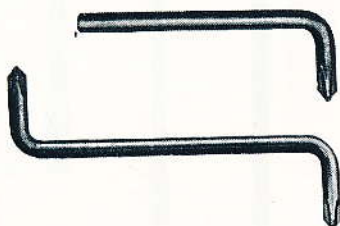
Clutch Type Bits — 3/8" Service (Not Guaranteed)



Tool No. 2824

Tool No.	Length	Point Size
2823	2-5/8"	5/32"
2824	2-5/8"	3/16"
2825	2-5/8"	1/4"
2827	2-5/8"	5/16"
2828	2-5/8"	3/8"

Phillips Offset or Angle Driver (Not Guaranteed)



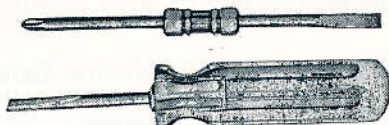
Angle Driver

Tool No.	Point Size	Overall Length
711	#1	2-1/4"
712	#2	3-1/2"
713	#3	5"

Offset Driver

Tool No.	Point Size	Overall Length
721	#1	2-3/8"
722	#2	3-3/4"
723	#3	5"

Reversible Screw Driver (Not Guaranteed)



By merely reversing the blade in this two-in-one screw driver, it is quickly converted from regular to Phillips.

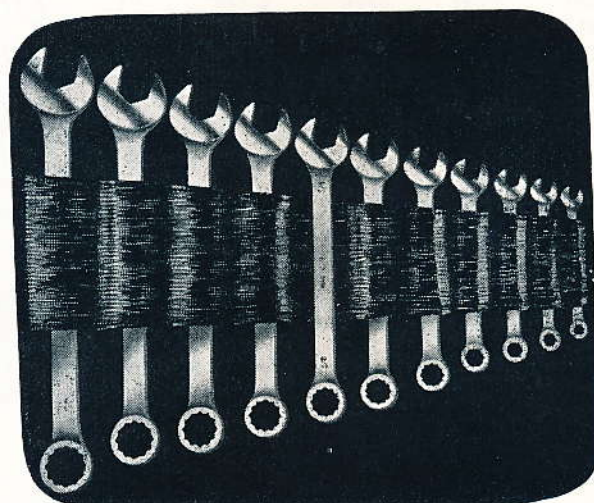
Tool No.	1st End	2nd End
PR1	#1 Phil.	3/16" Reg.
PR2	#2 Phil.	1/4" Reg.
PR12	#1 Phil.	#2 Phil.

Combination Wrenches

The Combination Wrench, gaining its name through the combination of an Open End Wrench and a Box Wrench, is unquestionably the most popular wrench today. In it you have two wrenches in one, using the Box End for loosening or tightening those stubborn tight nuts and the Open End for speed in running the nut on or off.

Forged from high grade special analysis steel, it is light in weight, strong and tough. Its narrow handle permits a longer swing and gets into those inaccessible spots. It fits your hand and feels "right".

The Open End is set at a fifteen degree angle with the handle while the Box End is offset at a 15 degree angle for clearance.



KC11 Set

Combination Wrenches

Tool No.	Sizes of Openings Both Ends		Length
	12 Point	6 Point	
CH8			3-3/4"
CH10			4-1/4"
CH12			4-3/4"
CH14			5-1/4"
CH16			6"
CH18			6-3/4"
CH20			7-1/2"
CH22			8-1/4"
CH24			9"
CH26			9-3/4"
CH28			10-1/2"
CH30			11-1/4"
CH32			12"
CH34			12-3/4"
CH36			13-1/2"
CH40			15"



Combination Wrench Sets 12 Point

Note: (Sizes $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{7}{16}$ " are furnished in 6-point)

KC5 Set of 5 combination wrenches, 12-point, in a leatherette kit consisting of the following: CH12, CH14, CW16, CW18, and CW20.

KC8 Set of 8 combination wrenches, 12-point, in a leatherette kit consisting of: CH12, CH14, CW16, CW18, CW20, CW22, CW24, and CW28.

KC11 Set of 11 combination wrenches, 12-point, in a leatherette kit consisting of: CH8, CH10, CH12, CH14, CW16, CW18, CW20, CW22, CW24, CW26, and CW28.

KC11P Set of 11 combination wrenches, 12-point, in a leatherette kit consisting of: CH12, CH14, CW16, CW18, CW20, CW22, CW24, CW26, CW28, CW30, and CW32.

KC5L Set of 5 combination wrenches, 12-point, in a leatherette kit consisting of: CW30, CW32, CW34, CW36, and CW40.

KC16 Set of 16 combination wrenches, 12-point in a leatherette kit, CH8 to CW40 inclusive.

Combination Wrench Sets 6 Point

KC5A Set of 5 combination wrenches, 6-point, in a leatherette kit as follows: CH8 to CH16 inclusive.

KC5H Set of 5 combination wrenches, 6-point, in a leatherette kit as follows: CH12 to CH20 inclusive.

KC8H Set of 8 combination wrenches, 6-point, in a leatherette kit as follows: CH12, CH14, CH16, CH18, CH20, CH22, CH24, and CH28.

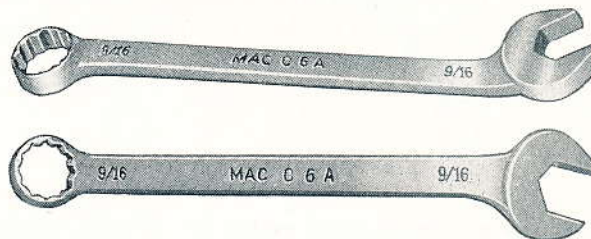
KC11H Set of 11 combination wrenches, 6-point, in leatherette kit as follows: CH8 to CH28 inclusive.

Extra Long Combination Wrenches (12 Point Only)

Tool No.	Size Opening	Length
CL18	9/16"	8"
CL20	5/8"	9"
CL22	11/16"	10"
CL24	3/4"	11"
CL26	13/16"	12"
CL28	7/8"	13"
CL30	15/16"	14"
CL32	1"	15"
CL34	1-1/16"	16"
CL36	1-1/8"	17"
CL40	1-1/4"	18"
CL42	1-5/16"	18"
CL44	1-3/8"	19"
CL46	1-7/16"	20"
CL48	1-1/2"	21"

Offset Combination Wrenches

This type combination wrench has a 25 degree offset on both ends whereas the regular combination wrench has a 15 degree offset on box end only.



Tool No.	Size Opening	Length
CA12	3/8"	4-3/4"
CA14	7/16"	5-1/4"
CA16	1/2"	6"
CA18	9/16"	6-3/4"
CA20	5/8"	7-1/2"

KC5S Set of five offset combination wrenches in leatherette kit, consisting of CA12 to CA20 inclusive.

Distributor Wrenches

Special Combination Wrench for Distributors, with 25° offset each end.



Tool No.	Size	Length	Car
CA16	1/2"	6"	Ford
CA18	9/16"	6-3/4"	Other Cars

Plymouth Manifold Wrench (Not Guaranteed)

Tool No. C66 Designed to work on the manifold nuts on Plymouth. This wrench is an open end and box with very thin heads, both ends are 9/16".

Chrysler Fluid Drive Wrenches

A special tool for adjustment of fluid drive on Chrysler cars.



MAC S24		
Tool No.	Size	Length
S24	5/8"	17"
S25	11/16"	17"



Box Wrenches

The entire MAC line of BOX WRENCHES is forged from the same dependable alloy steel as used in all MAC wrenches, selected for its toughness and wearing qualities. MAC wrenches are hot broached and heat treated in their entirety to provide a long and satisfactory service.

Senior Box Wrenches

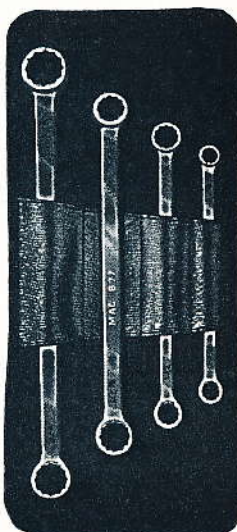
All openings are twelve point except the $\frac{3}{8}$ "x $\frac{1}{16}$ ", which is six point. Heads have 15 degree offset. Extra long type.

Long Box Wrenches

Tool No.	Size of Opening	Length
BHXL1214	3/8" x 7/16"	6"
BXL1618	1/2" x 9/16"	8"
BXL1820	9/16" x 5/8"	9"
BXL2022	5/8" x 11/16"	10"
BXL2024	5/8" x 3/4"	10"
BXL2428	3/4" x 7/8"	13"
BXL2630	13/16" x 15/16"	14"
BXL3234	1" x 1-1/16"	15"
BXL3640	1-1/8" x 1-1/4"	16"

KB44 Set of four Senior Box Wrenches in leatherette kit: BXL1214, BXL1618, BXL2022, and BXL2428.

KB77 Set of seven Senior Box Wrenches in leatherette kit: BXL1214, BXL1618, BXL2022, BXL2428, BXL2630, BXL3234, and BXL3640.



KB44

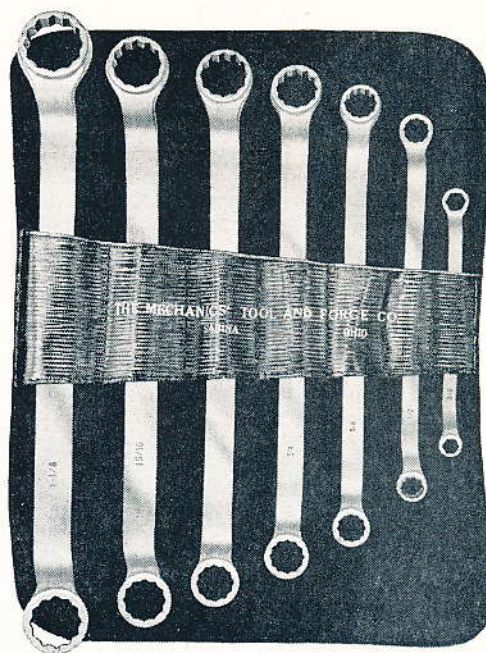
Offset Box Wrenches



This style offset box wrench is specially designed to give clearance. Forged from same high quality steel as all Mac wrenches. Hot broached with twelve point openings except the $\frac{3}{8}$ "x $\frac{1}{16}$ " which have six point openings.

Tool No.	Size Openings	Length
BHOL1214	3/8" x 7/16"	6"
BOL1618	1/2" x 9/16"	8"
BOL2022	5/8" x 11/16"	10"
BOL2428	3/4" x 7/8"	13"
BOL2632	13/16" x 1"	14"
BOL3032	15/16" x 1"	14"
BOL3034	15/16" x 1-1/16"	15"
BOL3640	1-1/8" x 1-1/4"	16"

Offset Box Wrench Sets



KB770 Set

KB44-0 Set of four Offset Box wrenches in leatherette kit: BOL1214, BOL1618, BOL2022, and BOL2428.

KB77-0 Set of seven Offset Box wrenches in leatherette kit: BOL1214, BOL1618, BOL2022, BOL2428, BOL2632, BOL3034, and BOL3640.

Short Box Wrenches, 15° Offset



Tool No.	Description	Length
BHX1214	3/8" x 7/16"	4 1/4"
BX1618	1/2" x 9/16"	5"
BX2024	5/8" x 3/4"	6"

KB3A Set of three Short Box wrenches in a leatherette kit consisting of: BHX1214 to BX2024 inclusive.

Short Offset Box Wrenches



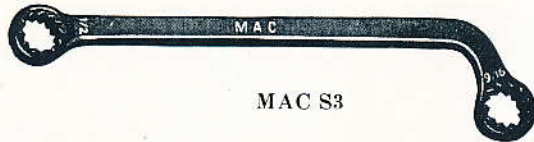
Tool No.	Size Openings	Length
BHO1214	3/8" x 7/16"	4-1/4"
BO1618	1/2" x 9/16"	5"
BO2024	5/8" x 3/4"	6"

KB3 Set of three Short Offset Box wrenches: BHO1214 to BO2024 inclusive in leatherette kit.



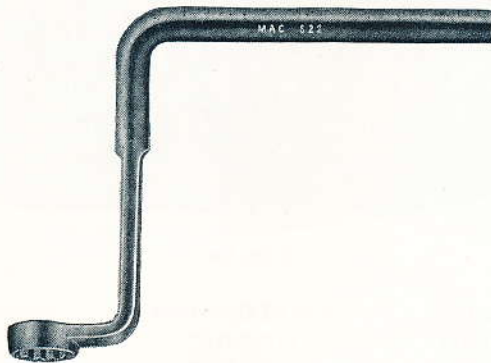
Special Manifold Wrench

This wrench is well adapted for manifold work on most cars. Also allows you to get at the nuts hard to reach with other wrenches. Has many uses.



Tool No. S3 Size 1/2" x 9/16" Length 7-1/2"

Ford Distributor Wrench



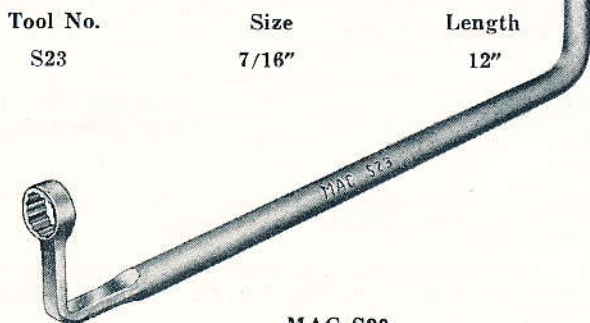
MAC S22

Tool No. S22 Size Opening 1/2"

1949 Plymouth Distributor Wrench (Similar to S23)

Tool No. S37 Size 7/16" Length 6 1/4"

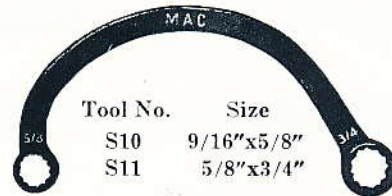
Chrysler Distributor Wrench



MAC S23

Front Motor Support And Starter Wrench

For Chevrolet and Chrysler Cars.



Tool No. Size
S10 9/16" x 5/8"
S11 5/8" x 3/4"

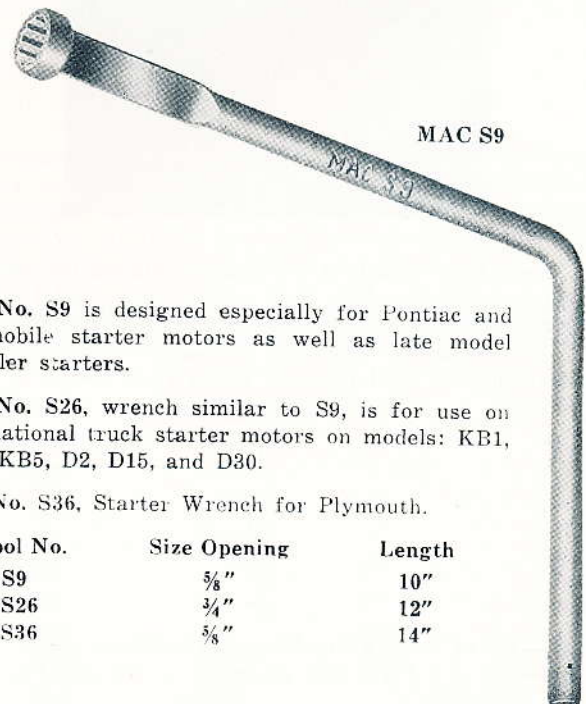
Starter Wrench

Chrysler products



Tool No. S4 Starter Wrench 5/8" opening.
Tool No. S1 Size Opening 5/8"

Starter Motor Wrench



MAC S9

Tool No. S9 is designed especially for Pontiac and Oldsmobile starter motors as well as late model Chrysler starters.

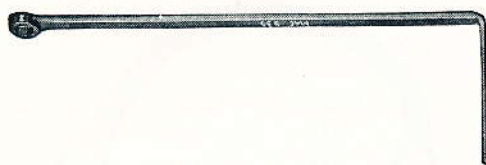
Tool No. S26, wrench similar to S9, is for use on International truck starter motors on models: KB1, KB3, KB5, D2, D15, and D30.

Tool No. S36, Starter Wrench for Plymouth.

Tool No.	Size Opening	Length
S9	5/8"	10"
S26	3/4"	12"
S36	5/8"	14"



Chrysler Fan Bolt Wrench Size 1/2" Length 12 1/2"



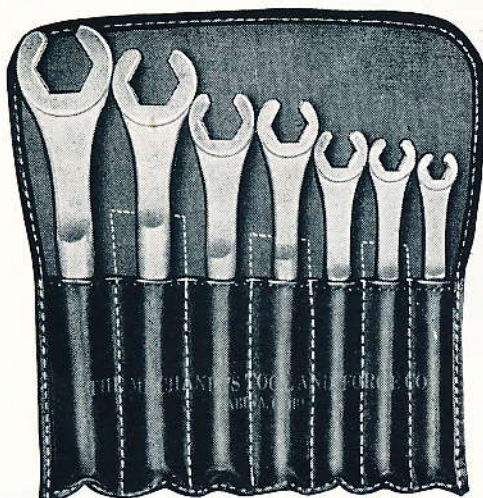
MAC S38

BRAKE ECCENTRIC WRENCHES



Tool No.	Size	Length
S15	3/16"x1/4"	9"
S43	5/16"x3/8"	9"

Flare Nut Or Coupling Wrenches (Not Guaranteed)



The Flare Nut wrench is especially designed for use over piping and tubing, where it is exceptionally useful in close places. This type of wrench does not injure the brass fittings. Mechanics who are servicing refrigeration, air conditioning will find this tool meets their needs.

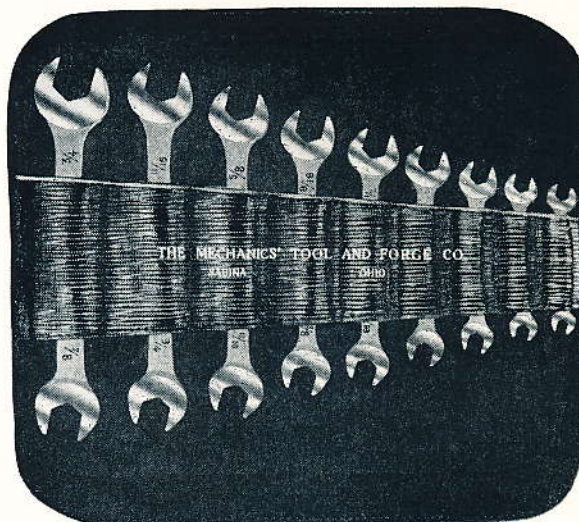
Tool No.	Op. Size	Length
OB12	3/8"	5"
OB14	1/2"	5 1/4"
OB16	1/2"	5 1/2"
OB18	9/16"	5 3/4"
OB20	5/8"	6 1/4"
OB24	3/4"	6 3/4"
OB28	7/8"	7 1/2"

KOB7—Set of 7 Flare Nut Wrenches in Kit as above.

KOB5—Set of 5 Flare Nut Wrenches in Kit, OB12 to OB20 inclusive.

Open End Wrenches

Forged from the same high quality steel as the combination wrenches, light, strong and easy to handle.



KD9 Set

Tool No.	Size of Openings	Length
DR810	1/4"x5/16"	3-1/2"
DR1012	5/16"x3/8"	4"
DR1214	3/8"x7/16"	4-1/2"
DR1416	7/16"x1/2"	5-1/4"
DR1618	1/2"x9/16"	6"
DR1820	9/16"x5/8"	6-3/4"
DR2022	5/8"x11/16"	7-1/2"
DR2024	5/8"x3/4"	8-1/4"
DR2224	11/16"x3/4"	8-1/4"
DR2428	3/4"x7/8"	9-1/2"
DR2632	13/16"x1"	10-1/2"
DR3034	15/16"x1-1/16"	12"
DR3640	1-1/8"x1-1/4"	13-1/2"

Open End Wrench Sets

KD55 Set of five Open End wrenches in leatherette kit, consisting of DR810, DR1214, DR1618, DR2022, and DR2428.

KD9 Set of nine Open End wrenches in leatherette kit, consisting of: DR810, DR1012, DR1214, DR1416, DR1618, DR1820, DR2022, DR2224, and DR2428.

KD12 Set of twelve Open End wrenches in leatherette kit, consisting of: DR810, DR1012, DR1214, DR1416, DR1618, DR1820, DR2022, DR2224, DR2428, DR2632, DR3034, and DR3640.

KD3L Set of three Open End wrenches in leatherette kit, consisting of: DR2632, DR3034, and DR3640.

KD8L Set of eight Open End wrenches in leatherette kit, consisting of: DR810, DR1214, DR1618, DR2022, DR2428, DR3034, and DR3640.



Extra Long Open End Wrenches

These wrenches are designed to give extra leverage for truck, bus and tractor work. Some sizes are especially good for brake adjustment.



DL2632

Tool No.	Size Openings	Length
DL2224	11/16"x3/4"	14"
DL2428	3/4"x7/8"	16"
DL2632	13/16"x1"	18"
DL3034	15/16"x1-1/16"	20"
DL3640	1-1/8"x1-1/4"	22"

Angle Wrenches

Angle Wrenches provide access to the work regardless of angle or position. Opening at one end is set at 60 degrees, while the other end is set at 15 degrees.



DA16

Tool No.	Size Opening	° Angle
DA12	3/8"x3/8"	15°-60°
DA14	7/16"x7/16"	15°-60°
DA16	1/2"x1/2"	15°-60°
DA18	9/16"x9/16"	15°-60°
DA20	5/8"x5/8"	15°-60°
DA22	11/16"x11/16"	15°-60°
DA24	3/4"x3/4"	15°-60°
DA26	13/16"x13/16"	15°-60°
DA28	7/8"x7/8"	15°-60°
DA30	15/16"x15/16"	15°-60°
DA32	1"x1"	15°-60°
DA34	1-1/16"x1-1/16"	15°-60°
DA36	1-1/8"x1-1/8"	15°-60°
DA40	1-1/4"x1-1/4"	15°-60°

KAD5 Set of 5 wrenches in leatherette kit consisting of DA12 to DA20 inclusive.

KAD11 Set of 11 wrenches in kit, DA12 to DA32 inclusive.

KAD14 Set of 14 wrenches in kit, DA12 to DA40 inclusive.

Double End Tappet Wrenches

Regular style double end tappet wrenches, long design, thin heads and tough. All Mac tappet wrenches are guaranteed when used for tappet adjusting only. TR2428 wrench is specially designed for Kaiser-Fraser cars.



TR1618

Tool No.	Size Opening	Length
TR1416	7/16" x 1/2"	12"
TR1618	1/2" x 9/16"	12"
TR1718	17/32" x 9/16"	12"
TR2022	5/8" x 11/16"	12"
TR2428	3/4" x 7/8"	12"

KTR5 Set of 5 long tappet wrenches in a leatherette kit, TR1416 to TR2428 inclusive.

Single End Tappet Wrenches

(Short Style)



TS16

Tool No.	Size Opening	Length
TS14	7/16"	8"
TS16	1/2"	8"
TS18	9/16"	8"

Special Length Tappet Wrenches

These extra-long, thin, tappet wrenches are specially suited for tappet adjustments on late model cars where it is necessary to make adjustments from underneath the car.



TL16

Tool No.	Size Opening	Length
TL14	7/16"	18"
TL16	1/2"	18"
TL18	9/16"	18"

Cold Chisels

We believe that "Mac" Cold Chisels are hard to equal because of our method used in forging and tempering. Driving ends are annealed to insure them against chipping, making them safe to use. Steel used in all chisels is a special chisel steel. Can easily be "file" sharpened.



Tool No.	Edge	Length	Stock Size
M2	5/16"	4"	1/4"
M3	7/16"	5-1/2"	3/8"
M33	9/16"	6"	1/2"
M4	11/16"	7"	5/8"
M5	11/16"	12"	5/8"
M6	7/8"	10"	3/4"
M7	7/8"	18"	3/4"
M24	7/8"	24"	3/4"
M25	1-1/16"	7-1/2"	1"



Flat Cape Chisel



Tool No.	Edge	Length	Stock Size
M1	1/8"	4"	1/4"
M9	5/16"	7"	1/2"

Diamond Point



Tool No.	Edge	Length	Stock Size
M10	3/16"	5"	3/8"
M10A	5/16"	6"	1/2"

Gouge Chisel



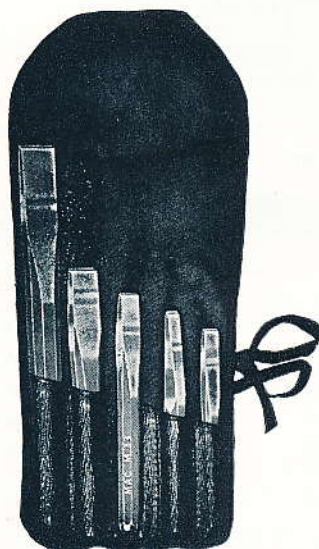
Tool No.	Edge	Length	Stock Size
OG4	1/8"	5-1/2"	3/8"
M11	1/4"	6"	1/2"

Muffler Chisel



M14			
Tool No.	Edge	Length	Stock Size
M14	1/2"	16-1/4"	1/2"

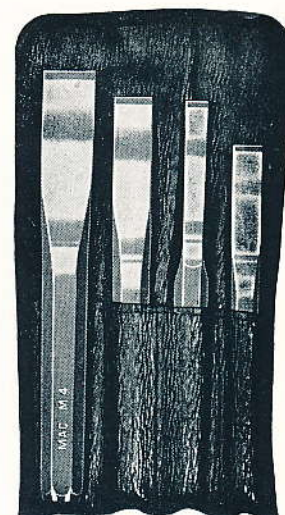
Cold Chisel Sets



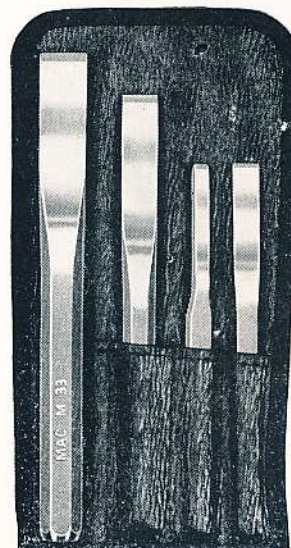
KM1

KM1 Set consists of four cold chisels and one flat cape chisel, M6, M4, M33, M9 and M3, in leatherette kit.

KP10 Set consists of three cold chisels and one flat cape chisel, M4, M33, M9 and M3, in leatherette kit.



KP10

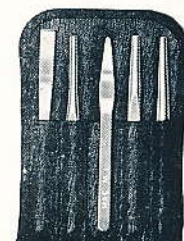


KP11

KP11 Set consists of three cold chisels and one flat cape chisel, M33, M3, M1 and M2 in leatherette kit.

Combination Punch And Chisel Sets

KP3 Set consists of cold chisel, flat cape chisel, center punch, pin punch and drift punch, M2, P3, M1, P12 and P5, in leatherette kit.



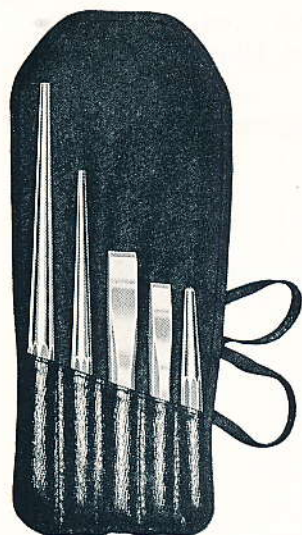
KP3 Set



Pin Punches Straight Shank



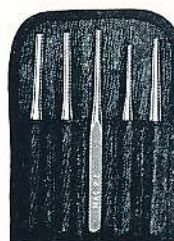
Tool No.	Point Size	Length	Stock Size
P1	1/16"	4"	1/4"
P2	3/32"	4"	1/4"
P3	1/8"	4"	1/4"
P4	5/32"	4"	1/4"
P6	1/8"	5-1/4"	3/8"
P7	5/32"	5-3/8"	3/8"
P8	3/16"	5-5/8"	3/8"
P9	7/32"	5-3/4"	1/2"
P10	1/4"	6"	1/2"
P10S	5/16"	6-3/4"	5/8"
P11S	3/8"	7-1/2"	5/8"



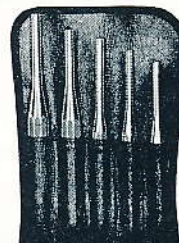
KP5 Set

KP5 Set consists of two drift punches, two cold chisels and one center punch, P17, P16, M4, M33 and P19 in leatherette kit.

Punch Kits



KP1 Set



KP2 Set

KP1 Set Consists of four small pin punches and one taper drift for starter punch, P1, P2, P3, P4 and P5, in leatherette kit.

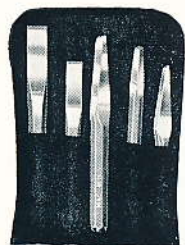
KP2 Set Consists of five popular size straight pin punches, P6, P7, P8, P9 and P10, in leatherette kit.

KP22 Set Consists of seven regular straight shank pin punches, P6, P7, P8, P9, P10, P10S and P11S in leatherette kit.



KP6 Set

KP6 Set consists of one each center punch, diamond point, gouge, pin punch, solid machine punch, P10, P14, M11, M10 and P11 in leatherette kit.



KP8 Set

KP8 Set consists of two cold chisels, one diamond point and two gouge chisels, M33, M3, M11, M10 and OG4, in leatherette kit.

Center Punches



Tool No.	Length	Stock Size
P11	4 1/2"	3/8"
P12	4"	1/4"
P19	6"	1/2"
P19A	6 1/2"	5/8"

KP12 Set Consists of four center punches, P11, P12, P19 and P19A, in leatherette kit.



KP12 Set

Punches

All MAC punches and drifts are HAND FORGED (Bradley Hammer) from an especially tough special analysis steel that experience has proven makes the toughest punches you can buy regardless of price.

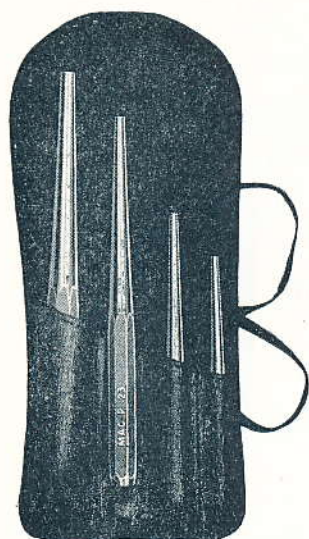


Machine Punches Or Solid Punches

Machine Punches are for the hard job where a heavy driving punch is required.



Tool No.	Point Size	Length	Stock Size
P14	1/4"	6"	1/2"
P21	3/16"	6-1/2"	3/8"
P22	1/4"	7-1/2"	1/2"
P23	5/16"	9"	5/8"
P24	7/16"	10"	3/4"
P24-4	5/8"	4"	3/4"
P24-6	1/2"	6"	3/4"



KP7 Set

Machine Punch Set

KP7 Set consists of four machine punches: P21, P22, P23, and P24 in leatherette kit.

Starter Punch Set

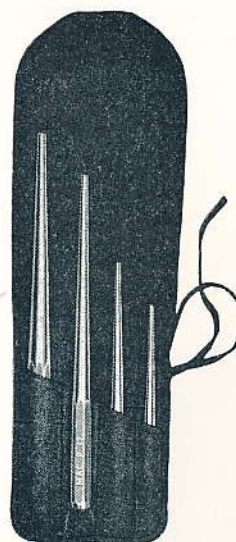
KP33 Set of three starter punches: P24, P24-4, and P24-6 in leatherette kit.

Special Scratch Awl, Rubber Covered Handle



Tool No.	Length	Stock Size
P30	7"	1/2" Oct.

Drift Punch Set



KP4 Set

KP4 Set Consists of four drift punches, P15, P16, P17 and P18, in leatherette kit.

Drift Punches Long Taper

MAC Drift Punches are exceptionally long tapered, hammer forged from Special Alloy steel. They are an extra fine quality drift and the gradual taper makes them especially good for line-up jobs.



Drift Punches Long Taper

Tool No.	Point Size	Taper	Length	Stock Size
P5	1/16"	2"	4"	1/4"
P15	3/32"	3-1/2"	8"	3/8"
P16	3/16"	5"	9"	1/2"
P17	3/16"	6-1/2"	11"	5/8"
P18	1/4"	7-1/2"	13"	3/4"

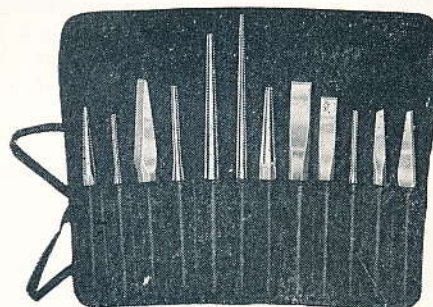
EXTRA LONG TAPER

P25	3/16"	8-1/2"	13"	3/8"
P26	1/4"	10"	14-1/2"	1/2"
P27	5/16"	12"	16"	5/8"
P29	1/8"	11"	15"	5/8"

KP4L Set of three extra long taper drift punches in leatherette kit consisting of P25, P26, and P27.

Master Punch And Chisel Set

This is our master combination punch and chisel set for it contains just the tools that are always in demand around the shop and will take care of most all emergencies where small punches, chisels, etc., are needed. Some tool in this kit is used almost every working day. They are of high quality and will satisfy the most particular mechanic who appreciates good tools.



KP9 Set

KP9 Set Consists of two cold chisels, three pin punches, one each center punch, diamond point, drift punch, flat cape chisel, gouge, and two solid machine punches, P11, P6, M9, P10, P22, P15, P14, M33, M3, P7, M10 and OG4, in leatherette kit.



Rivet Busters

Tool No.	Edge	Length	Stock Size
M66	7/8"	12"	3/4"
M67	7/8"	18"	3/4"

Line-Up Pry Bars

Tool No.	Point Size	Length	Stock Size
M12	1/4"	15"	1/2"
M12A	5/16"	22"	5/8"

Line-Up Bar



This bar is not only used as a line-up bar but the hooked end is used for a retainer puller or to pry with.

Tool No.	Point Size	Length	Stock Size
M13	1/4"	15"	1/2"

Lady-Foot Line-Up Bar



Tool No.	Point Size	Length	Stock Size
M26	1/4"	16"	1/2"

Screw Extractors (Twisted Points)

Tool No.	Point Size	Length
E2	3/16"	3"
E3	1/4"	3-3/4"
E4	5/16"	4"
E5	3/8"	4-1/4"
E6	7/16"	5-1/4"



KSE5 Set

KSE5 Set consists of five Extractors, E2, E3, E4, E5 and E6 in leatherette kit.

Brake Tools



Tool No. S7 Bendix Brake Adjusting Tool



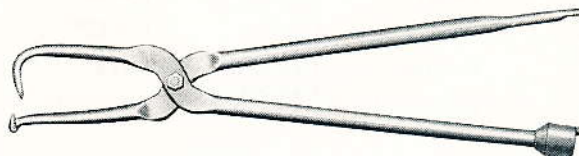
Tool No. S7A Chevrolet Brake Adjusting Tool

Brake Spring Tongs

Tongs that make your work easier. For Ford cars and cars with Bendix Brakes. S13T is ideal for putting on and taking off springs on hoods.

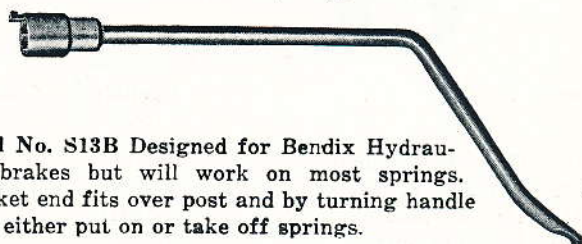


Tool No.	Size
S13	14" long (Passenger Cars)
S13T	20" long (Trucks)



Tool No.	Description	Size
S13-1	For Passenger Cars	14"

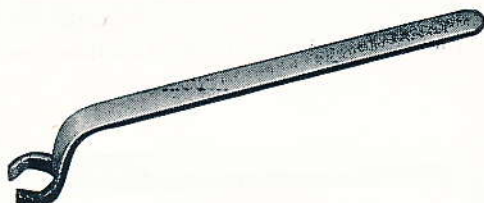
Brake Spring Tool



Tool No. S13B Designed for Bendix Hydraulic brakes but will work on most springs. Socket end fits over post and by turning handle will either put on or take off springs.



Instrument Panel Wrench Plymouth Light Switch

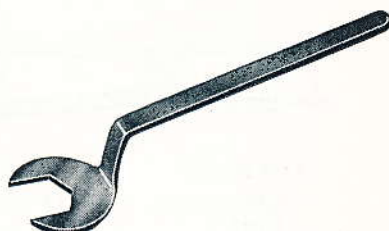


Tool No. S30 Size 9/16" Open Box, 1-3/8" Offset. For use back of panel, Plymouths.

Tool No. S42 Size 9/16" Open Box, 3" Offset. For use back of panel on 1949 Plymouths and Chevrolets.

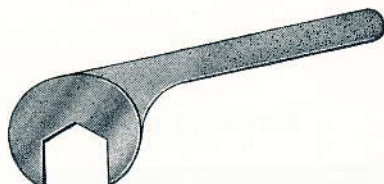
Caster & Camber Wrenches (Not Guaranteed)

These wrenches are especially designed for caster and camber adjustments on late model cars. Adjustments are made with these tools from underneath the front end of the car.



Tool No.			Op. Size	Length
S31	Ford	Caster	1-3/16"	9"
S32	Ford	Camber	1-5/16"	9"
S44	Pontiac	Caster & Camber	1-1/4"	9"

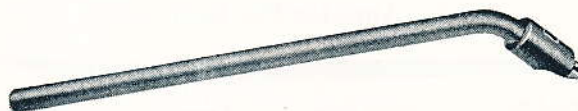
Caster & Camber Wrenches Not Guaranteed



Tool No.		Opening Size	Length
S27	Chrysler Products	1-1/2"	8"
S28	Chrysler Products	1-7/16"	8"
S49	1951 Plymouth	1-13/16"	8"
S50	1951 Chrysler	1-5/8"	8"
S51	1951 DeSoto-Plymouth	1-5/16"	8"

Ford Valve Lock Remover

This tool has a sleeve that slips over the pin when it is inserted in the valve lock and therefore eliminates danger of pulling out the eye in the valve lock when removing the valve lock.



Tool No. S20

Ford Shackle Bushing Tool

A tool that is especially designed to remove the rubber-mounted stud bushings from the spring shackle and perch on Ford and Mercury cars.



Tool No. S21

Hub Bolt Swedge Tool

Especially designed swedging tool for hub bolts on Ford trucks.

Tool No.	I. D.
HB4	3/4"

Universal Hub Bolt Riveter

This tool will eliminate the necessity of having a hub bolt riveter for each size needed.



Tool No.	Length	Stock Size
UR1	8"	5/8"



Cylinder Head Wrenches Buick & Chevrolet



These three wrenches were designed to simplify the job of removing or tightening the cylinder head stud nuts on Chevrolet and Buick. One end is broached to fit the nut while the opposite end is broached for $\frac{1}{2}$ " service. Any type standard $\frac{1}{2}$ " drive wrench handle may be used or with a tension wrench if preferred.

	Tool No.	Opening Size	Service End Size	Overall Length
Buick	S33	$\frac{5}{8}$ "	$\frac{1}{2}$ "	6 $\frac{1}{2}$ "
Buick	S34	$\frac{3}{4}$ "	$\frac{1}{2}$ "	6 $\frac{1}{2}$ "
Chevrolet	S35	$\frac{3}{4}$ "	$\frac{1}{2}$ "	5 $\frac{5}{8}$ "
Chevrolet Power Glide	S48	$\frac{3}{4}$ "	$\frac{1}{2}$ "	5 $\frac{5}{8}$ "

Carbon Scrapers



Tool No. S16 Single End Carbon Scraper

Tool No. PS16 Same as above with plastic handle



Tool No. S17 Double End Carbon Scraper

Starter Wrench



Tool No. S46 5/8" Starter Wrench for Oldsmobile (Rocket)

Cotter Key Puller

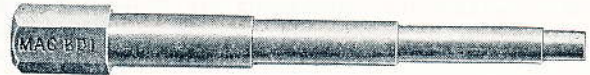


Tool No. S29

Tool No. S29 Wood Handle

Tool No. SP29 Plastic Handle

Bushing Drivers (Step Down Type)



Tool No. BD1 Sizes $\frac{7}{8}$ ", $\frac{3}{4}$ ", $\frac{5}{8}$ ", $\frac{1}{2}$ ".

Tool No. BD2 Sizes $\frac{7}{8}$ ", $\frac{11}{8}$ ", $\frac{11}{16}$ ", $\frac{9}{16}$ ".

Engine Lifting Eye Bolts

A size to fit all popularly used spark plug threads. Assists in lifting engines when screwed into spark plug holes.



Tool No.

EB1

EB3

EB4

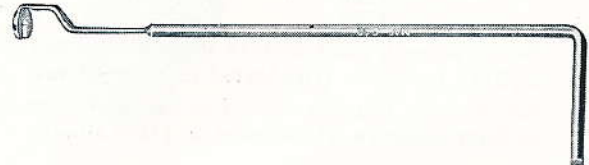
Size

$\frac{7}{8}$ "

14 MM

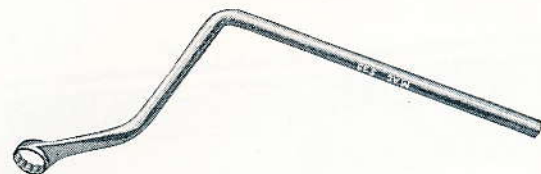
18 MM

Ford Electric Oil Pressure Unit Wrench



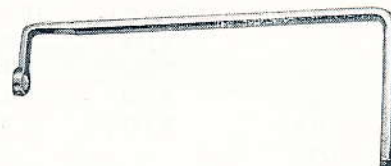
MAC S40

Starter Wrench, 1949 Chevrolet



MAC S39

Distributor Wrench, 1949 Packard



MAC S41

Size 1/2" Length 10"



Sockets and Attachments

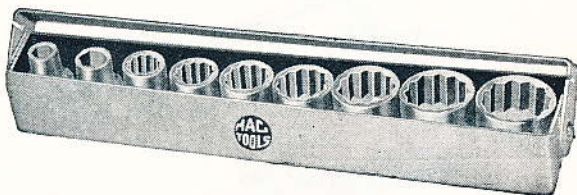
All MAC sockets and attachments are made from special steel, heat treated to give maximum strength and toughness. Sockets, Universal Joints, etc., are true forged with thin walls and small outside diameter, yet exceptionally strong. Our method of manufacturing MAC sockets allows us to make them shorter than average yet they have a deeper spline and therefore will work in closer places, as well as being lighter in weight.

3/8" Square Drive Service Standard Sockets

6 Point Tool No.	12 Point Tool No.	Opening Size
X86		1/4"
X106		5/16"
X126	X122	3/8"
X146	X142	7/16"
X156		15/32"
X166	X162	1/2"
	X172	17/32"
X186	X182	9/16"
	X192	19/32"
X206	X202	5/8"
X226	X222	11/16"
X246	X242	3/4"
	X252	25/32"
X266	X262	13/16"
X286	X282	7/8"

- SX1 Set of seven 6 point sockets in cardboard box, X126 to X246 inclusive. (Graduated in 1/16" sizes).
- SX1A Set of seven 12 point sockets in cardboard box, X122 to X242 inclusive. (Graduated in 1/16" sizes).

3/8" Service Socket Sets



SX12

SX12 This set is furnished in a handy metal tray with 9 Standard MAC sockets, 12-point, 3/8" square drive as follows:

Tool No.	Description	Tool No.	Description
X86	1/4"	X182	9/16"
X106	5/16"	X202	5/8"
X126	3/8"	X222	11/16"
X146	7/16"	X242	3/4"
X162	1/2"		

SX16 Set is furnished with 6-point sockets, otherwise it is identical with Set No. SX12.

XT1 Metal tray only

SX56 An 11-piece set of Standard MAC sockets, 6-point, 3/8" square drive, furnished in attractive and handy tray as follows:

Tool No.	Description	Tool No.	Description
X86	1/4"	X206	5/8"
X106	5/16"	X226	11/16"
X126	3/8"	X246	3/4"
X146	7/16"	X266	13/16"
X166	1/2"	X286	7/8"
X186	9/16"		

SX52 This is an 11-piece set of Standard MAC Sockets, identical with the above set except supplied with 12-point sockets.

XT5 Metal tray separate.

3/8" Service Deep Sockets

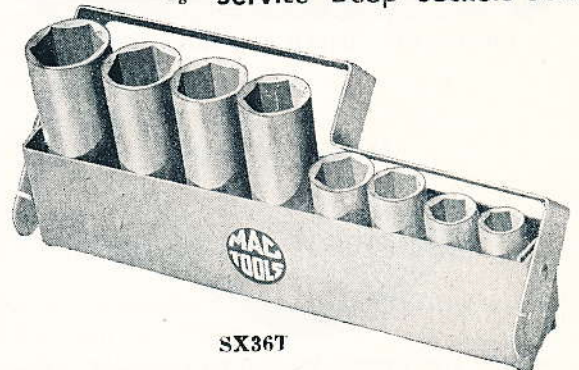
6 and 12-point with Deep Spline



Tool No. 6-Point	Tool No. 12-Point	Opening Size	Length
XD126	XD122	3/8"	1-3/4"
XD146	XD142	7/16"	1-3/4"
XD166	XD162	1/2"	1-7/8"
XD186	XD182	9/16"	1-7/8"
XD206	XD202	5/8"	2-3/4"
XD226	XD222	11/16"	2-3/4"
XD246	XD242	3/4"	2-3/4"
XD266	XD262	13/16"	2-3/4"

- SX36 Set of eight 6-point Deep Sockets. (As shown above)
- SX32 Set of eight 12-point Deep Sockets. (As shown above)

3/8" Service Deep Sockets Sets



SX36T

SX36T An 8-piece set of MAC Deep Sockets in a handy metal tray, as shown above:

Tool No.	Description	Tool No.	Description
XD126	3/8"	XD206	5/8"
XD146	7/16"	XD226	11/16"
XD166	1/2"	XD246	3/4"
XD186	9/16"	XD266	13/16"

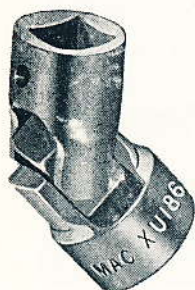
SX32T This set is identical with Set No. SX36T except that it is supplied in 12-point sockets.

XT3 Metal tray alone



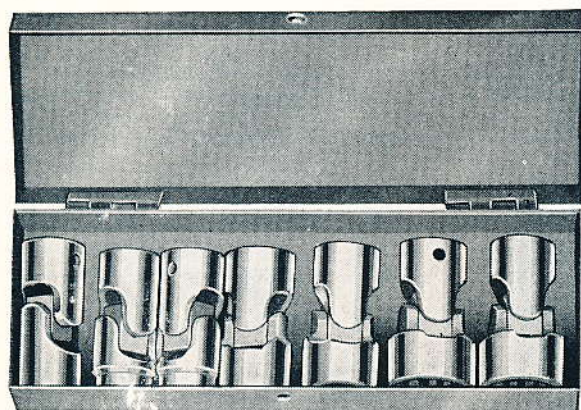
3/8" Service Universal Socket Sets

All MAC universal joints and universal sockets have a spring tension in the joint so that they will stay in place when putting them on the nut. They will not "flop" and it is not necessary to hold the joint by hand to put on nut.



6 and 12-point Openings

Tool No. 6-Point	Tool No. 12-Point	Opening Size
XU126	XU122	3/8"
XU146	XU142	7/16"
XU166	XU162	1/2"
XU186	XU182	9/16"
XU206	XU202	5/8"
XU226	XU222	11/16"
XU246	XU242	3/4"



SX46 With the many difficult spots to reach on late model cars, a Universal socket set is almost indispensable. This set of 7 MAC Universal sockets, 6-point 3/8" drive is furnished in an attractive metal box and consists of:

Tool No.	Description	Tool No.	Description
XU126	3/8"	XU206	5/8"
XU146	7/16"	XU226	11/16"
XU166	1/2"	XU246	3/4"
XU186	9/16"		

SX42 This set is identical with the above set except it is furnished with 12-point sockets.

XB4 Metal box separate.

3/8" Service Socket Adaptors

To enable the mechanic to use the 3/8" or 1/2" Sockets and extensions in either service.



Tool No.	Description
X1A	3/8" Male — 1/2" Female
X2A	1/2" Male — 3/8" Female
X3A	1/4" Male — 3/8" Female
X4A	3/8" Male — 1/4" Female



3/8" Service 8 Point Sockets

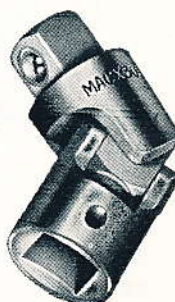
Tool No.	Opening Size
X128	3/8"
X148	7/16"
X168	1/2"



3/8" Service Weatherhead Sockets

Tool No.	Opening Size
X014	7/16"
X016	1/2"
X018	9/16"

3/8" Service Universal Joint



Regular Universal Joint 3/8" Square Male; 3/8" Square Female.

Tool No. X3U



3/8" Service Drain Plug Sockets

Tool No. X94	9/32" Square Socket for Buick Dynaflo.
Tool No. X104	5/16" Square Socket for GMC Hydramatic.

Tool No. X94

3/8" Service Standard Flex Handle

All purpose handle enables the mechanic to get at the work from any angle.



Tool No.	Length
X8F	8"



Flex Box Wrenches



6 Point	12 Point	Size Opening	Length
FB1214	FB1214-2	3/8 x 7/16"	8"
FB1618	FB1618-2	1/2 x 9/16"	8"
	FB2022-2	5/8 x 11/16"	10"
	FB2128-2	3/4 x 7/8"	12"

3/8" Service

Sliding Bar T Handle

Bar has center groove for spinning and friction ball for holding at any given point.



Tool No. X8T—8" long

3/8" Service Speed Handles



Tool No.	Length
X17S	17"
X26S	26"
X34S	34"

3/8" Service

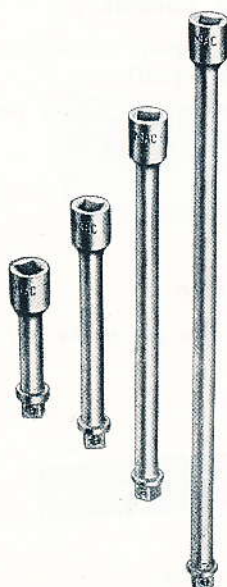
Special Sockets



Tool No.	Description
SC11	Windshield Wiper Wrench for Nash and Plymouth
SC14	Light Switch Wrench for '49 Chevrolet and Pontiac

3/8" Service

Socket Wrench Extensions



Tool No.	Length
X1E	1 1/2"
X3E	3"
X5E	5"
X8E	8"
X12E	12"
X20E	20"

3/8" Service

Reversible Ratchet

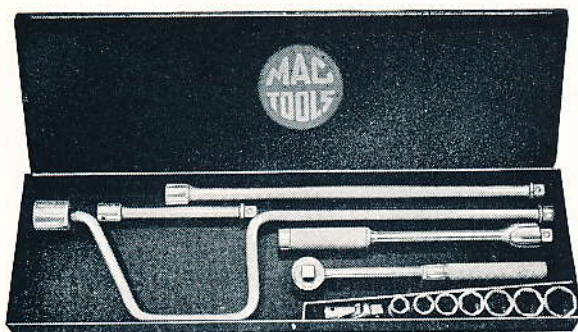
The MAC 3/8" drive Reversible Ratchet, regarded by many as the finest ratchet on the market, is forged from the finest steel obtainable for the purpose. It is accurately machined to close tolerances, and with its 40-tooth mechanism assures close action in the most inaccessible places. The reversing action is positive and easy to operate. A precision tool for the professional mechanic.



Tool No.	Size	Length
X3R	3/8" drive	8"



3/8" Service Socket Sets



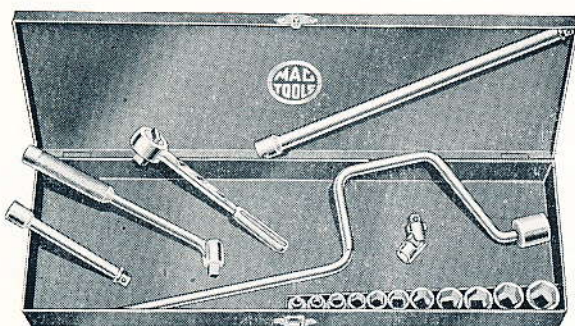
Set No. SX26

SX26 This 13-piece MAC socket set, 3/8" square drive, is furnished in a durable and attractive metal carrying box. The set includes 7 sockets, 6-point, ranging in sizes from 3/8" to 3/4" inclusive, along with 6 attachments as listed below:

Tool No.	Description	Tool No.	Description
X126	3/8"	Skt.	X5E 5" Extension
X146	7/16"	Skt.	X12E 12" Extension
X166	1/2"	Skt.	X17S 17" Spd. Hdl.
X186	9/16"	Skt.	X8F 8" Flex Hdl.
X206	5/8"	Skt.	X3U Univ. Jt.
X226	11/16"	Skt.	X3R Rev. Ratchet
X246	3/4"		

SX22 This set is furnished with 12-point sockets, otherwise it is identical with the previous set, SX26.

XB1 Metal box only for above sets.



SX66 This 17-piece set, 6-point, 3/8" square drive, is designed to fulfill the needs of the professional mechanic. All tools are forged from the best alloy steel obtainable for the purpose. Set is furnished in a sturdy and attractive metal carrying box and consists of:

Tool No.	Description	Tool No.	Description
X86	1/4"	Skt.	X266 13/16" Skt.
X106	5/16"	Skt.	X286 7/8" Skt.
X126	3/8"	Skt.	X5E 5" Extension
X146	7/16"	Skt.	X12E 12" Extension
X166	1/2"	Skt.	X17S 17" Spd. Hdl.
X186	9/16"	Skt.	X8F 8" Flex Hdl.
X206	5/8"	Skt.	X3U Univ. Jt.
X226	11/16"	Skt.	X3R Rev. Ratchet
X246	3/4"	Skt.	

SX62 This set is furnished with 12-point sockets with the exception of the 1/4" and 5/16" which are 6-point, otherwise set is identical with the SX66 set.

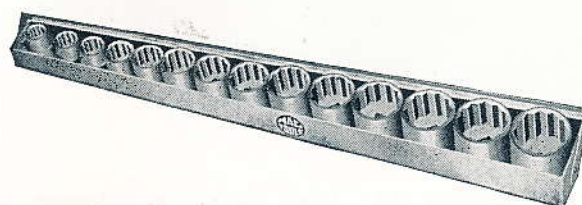
XB2 Metal box only.



1/2" Square Drive Service Standard Sockets

6 Point	12 Point	Opening Size
V146	V142	7/16"
V166	V162	1/2"
V186	V182	9/16"
	V192	19/32"
V206	V202	5/8"
V226	V222	11/16"
V246	V242	3/4"
	V252	25/32"
V266	V262	13/16"
V286	V282	7/8"
V306	V302	15/16"
V326	V322	1"
V346	V342	1-1/16"
V366	V362	1-1/8"
V386	V382	1-3/16"
V406	V402	1-1/4"

Standard Socket Sets



SV12

SV12 The 14-piece set of Standard MAC sockets, 12-point, 1/2" square drive, comes in a handy metal tray and contains the following:

Tool No.	Description	Tool No.	Description
V142	7/16"	V282	7/8"
V162	1/2"	V302	15/16"
V182	9/16"	V322	1"
V202	5/8"	V342	1-1/16"
V222	11/16"	V362	1-1/8"
V242	3/4"	V382	1-3/16"
V262	13/16"	V402	1-1/4"

SV16 This 14-piece set is supplied in 6-point sockets, otherwise it is identical with the above set.

VT1 Metal tray only.



**½" Service
Deep Sockets
6 And 12 Pt.—Deep Spline**

Tool No. 6 Point	Tool No. 12 Point	Opening Size	Length
VD166	VD162	1/2"	3"
VD186	VD182	9/16"	3"
VD206	VD202	5/8"	3"
VD226	VD222	11/16"	3"
VD246	VD242	3/4"	3"
VD266	VD262	13/16"	3-1/4"
VD286	VD282	7/8"	3-1/4"
VD306	VD302	15/16"	3-1/4"
VD326	VD322	1"	3-1/4"
VD346	VD342	1-1/16"	3-1/4"
VD366	VD362	1-1/8"	3-1/4"



**½" Service
Drain Plug Sockets**



Tool No.	Description	Tool No.	Description
VP10	5/16"	VP16	1/2"
VP12	3/8"	VP18	9/16"
VP14	7/16"	VP20	5/8"

SVP6 Set of six Drain Plug Sockets, ½" service in sizes from 5/16" to 5/8" inclusive in a special tray.

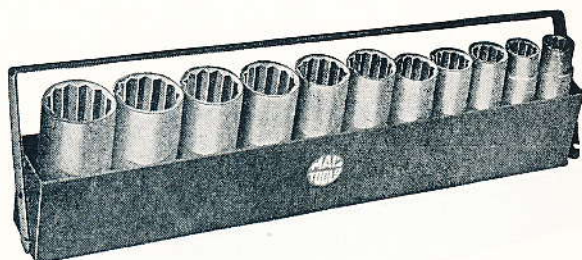
**½" Service
Universal Joint**



Regular Universal Joint ½" Square Male; ½" Square Female end.

Tool No. V3U

**½" Service
Deep Socket Sets**



SV52

SV52 The 11-piece MAC Deep Socket Set, 12-point, ½" square drive, is furnished in a handy metal tray as illustrated above and consists of:

Tool No.	Description	Tool No.	Description
VD162	1/2"	VD282	7/8"
VD182	9/16"	VD302	15/16"
VD202	5/8"	VD322	1"
VD222	11/16"	VD342	1-1/16"
VD242	3/4"	VD362	1-1/8"
VD262	13/16"		

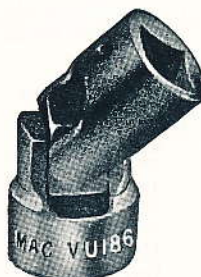
SV56 Set is furnished with 6-point deep sockets, otherwise it is identical with set No. SV52.

YT5 Metal tray alone.

**½" Service
Universal Sockets**

All MAC universal joints and universal sockets have a spring tension in the joint so that they will stay in place when putting them on the nut. They will not "flop" and it is not necessary to hold the joint by hand to put on nut.

6 Point Openings



Tool No.	Opening Size
VU186	9/16"
VU206	5/8"
VU226	11/16"
VU246	3/4"

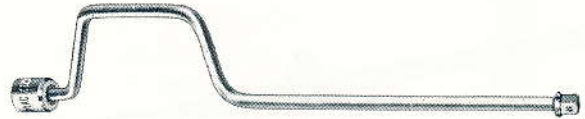


1/2" Service Anchor Bolt Sockets For Hydraulic Brakes



Tool No.	Measurement Across Flats	I. D. Across Round Section	Service End
VA16	1/2"	3/4"	1/2"
VA18	9/16"	13/16"	1/2"

1/2" Service Speed Handle



Tool No.	Length
V18S	18"

1/2" Service Drag Link Sockets



Tool No.	Width	Thickness
DLV1	3/4"	.109
DLV2	1-3/16"	.150
DLV3	15/16"	.150

1/2" Service Reversible Ratchet

The MAC 1/2" Reversible Ratchet, like the 3/8" Drive Ratchet is regarded as tops in tools. It too is forged from the finest quality steel and is virtually the same design as the smaller ratchet. It is machined to close tolerances and with its 50-tooth mechanism, finds use in the most inaccessible places. Precision-built for the professional mechanic.



Tool No.	Size	Length
V5R	1/2" Drive	10"

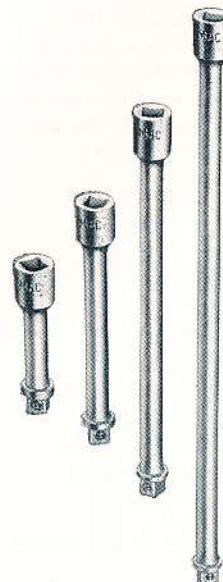
1/2" Service 8 Point Sockets



Tool No.	Width
V148	7/16"
V168	1/2"
V188	9/16"
V208	5/8"
V228	11/16"
V248	3/4"
V268	13/16"
V288	7/8"
V328	1"

1/2" Service Socket Wrench Extensions

Extensions of the right length to meet any requirement.



Tool No.	Length
V2E	2"
V5E	5"
V10E	10"
V20E	20"
V30E	30"
V36E	36"

3/8" Service Wing Nut Socket For Valve Cover Plates Chrysler Product



SC10

1/2" Service Standard Flex Handle

All purpose handle for getting at the work from any angle.



Tool No.	Stock Size	Length
V12F	5/8"	12"
V18F	5/8"	18"
V24F	5/8"	24"



1/2" Service Sliding Bar T Handle



Bar has center groove for spinning and friction ball for holding at any given point.

Tool No.	Stock Size	Length
V18T	9/16"	18"

1/2" Service MAC Socket Sets With Attachments



SV22

SV22 The 22-piece set of MAC Standard 12-point sockets, 1/2" square drive, has been designed to meet the exacting requirements of the present day professional mechanic. As is the case with all MAC tools, they are forged from the very finest alloy steel obtainable for the purpose. The sockets are forged with unusually deep splines and thin walls. The SV22 is supplied with an attractive and durable metal carrying box containing 14 sockets ranging in sizes from 7/16" to 1 1/4" inclusive together with 8 attachments as listed below:

Tool No.	Description	Tool No.	Description
V142	7/16" Skt.	V362	1-1/18" Skt.
V162	1/2" Skt.	V382	1-3/16" Skt.
V182	9/16" Skt.	V402	1-1/4" Skt.
V202	5/8" Skt.	V2E	2" Ext.
V222	11/16" Skt.	V5E	5" Ext.
V242	3/4" Skt.	V10E	10" Ext.
V262	13/16" Skt.	V18S	18" Spd. Hdl.
V282	7/8" Skt.	V18T	18" T Hdl.
V302	15/16" Skt.	V18F	18" Flex Hdl.
V322	1" Skt.	V3R	Rev. Ratchet
V342	1-1/16" Skt.	V3U	Univ. Jt.

SV26 This set is identical with the above set SV22, except that it is furnished in 6-point sockets.

SV32 This set of 14 MAC Standard 12-point, 1/2" square drive consists of a durable and attractive metal carrying box with 14 sockets ranging in sizes from 7/16" to 1 1/4" inclusive, along with an 18# flex-handle as listed below:

Tool No.	Description	Tool No.	Description
V142	7/16" Skt.	V302	15/16" Skt.
V162	1/2" Skt.	V322	1" Skt.
V182	9/16" Skt.	V342	1-1/6" Skt.
V202	5/8" Skt.	V362	1-1/8" Skt.
V222	11/16" Skt.	V382	1-3/16" Skt.
V242	3/4" Skt.	V402	1-1/4" Skt.
V262	13/16" Skt.	V18F	18" Flx. Hdl.
V282	7/8" Skt.		

SV36 Is furnished with 6-point sockets, otherwise it is identical with set No. SV32.

VBI Metal box alone.

Impact Sockets (6 Point)

MAC IMPACT SOCKETS are especially designed to meet the demand for a socket that will withstand the punishment of continuous use on Impact Type Power Tools and give longer life. MAC IMPACT sockets fulfill this exacting demand and give additional life to the sockets. Into this socket, forged from a special alloy steel, is brought all the skill and knowledge and experience of years. There are none better.



3/8"	1/2"	Opening Size
Tool No.	Tool No.	
XI-126		3/8"
XI-146	VI-146	7/16"
XI-166	VI-166	1/2"
XI-186	VI-186	9/16"
XI-206	VI-206	5/8"
XI-226	VI-226	11/16"
XI-246	VI-246	3/4"
	VI-266	13/16"
	VI-286	7/8"



1/2" Service 7/16" Socket For Cadillac Connecting Rods

(Not Guaranteed)

Tool No. V146C

1/2" Service 9/16" Socket For Ford Connecting Rods

(Not Guaranteed)

Tool No. V186F



1/2" Service Special Sockets



Tool No.	Description
V206S	5/8" Head Bolt Socket
V226S	11/16" Head Bolt Socket
V246S	3/4" Head Bolt Socket
V406S	1-1/4" Thin Wall Socket for drive shaft, all light model IHC trucks (No guarantee)

Nash and Kaiser Brakes



Special 4-point 3/8" Socket for
Nash and Kaiser brakes.

Tool No. V124

Socket Adapters

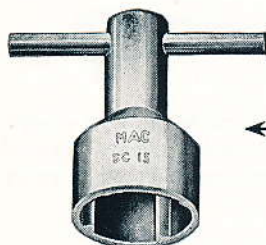


Tool No.	Description
V1A	1/2" Female — 3/4" Male
V2A	3/4" Female — 1/2" Male
Y1A	5/8" Female — 1/2" Male



29/32" Socket For
Shackle Bolts—Chrysler Cars

Tool No. V296



Chrysler No. 100
Heater Wrench

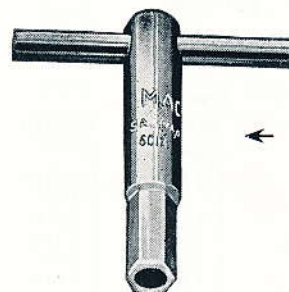
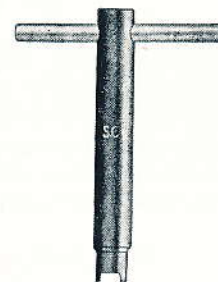
SC15 — Specially designed spinner
wrench for use on heater switch
on Chrysler products using No. 100
heaters.

Instrument Panel Wrenches

SC1—Instrument Panel
Chrysler Cars

SC9—Starter Button
Chrysler Cars

SC13—Windshield
Wiper and Light
Switch—Ford



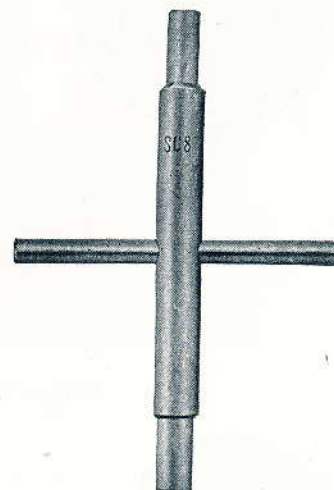
Windshield Wiper and Light
Switch—Chrysler

Tool No. SC12

Trico Windshield Wiper Wrench

Tool No.

SC8—For all cars using
Trico windshield wipers



Carburetor Jet Wrench

Tool No.	Carburetor	Car
SC2	Stromberg	Ford
SC3	Stromberg	Other Cars





Heavy Duty Sockets 3/4" Square Drive Service

HEAVY DUTY SOCKETS, as with all MAC sockets, are forged from extra tough alloy steel, chosen especially for its strength and wearing qualities.

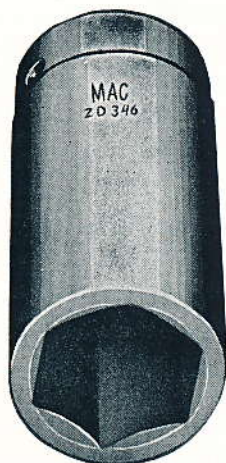
Like all MAC sockets, our manufacturing process permits the decidedly deeper splines, the thinner side walls without the sacrifice of strength, features found only in MAC sockets.



3/4" Square Drive Service Standard Sockets

Tool No. 12 Point	Opening Size	Length
Z282	7/8"	2"
Z302	15/16"	2-1/16"
Z322	1"	2-1/8"
Z342	1-1/16"	2-3/16"
Z362	1-1/8"	2-5/16"
Z382	1-3/16"	2-3/8"
Z402	1-1/4"	2-7/16"
Z422	1-5/16"	2-1/2"
Z442	1-3/8"	2-5/8"
Z462	1-7/16"	2-11/16"
Z482	1-1/2"	2-3/4"
Z522	1-5/8"	2-13/16"
Z542	1-11/16"	2-7/8"
Z562	1-3/4"	3"
Z582	1-13/16"	3-1/6"
Z602	1-7/8"	3-3/16"
Z642	2"	3-1/4"
Z662	2-1/16"	3-1/4"
Z682	2-1/8"	3-1/4"
Z702	2-3/16"	3-1/4"
Z722	2-1/4"	3-1/4"

3/4" Square Service Drive Deep Sockets



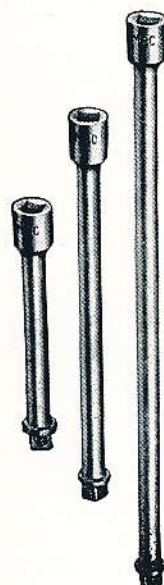
Tool No.	Opening Size	Length
ZD346	1-1/16"	3-1/2"
ZD366	1-1/8"	3-1/2"
ZD406	1-1/4"	3-1/2"

3/4" Service Sliding Bar T Handle



Bar has center groove for spinning and friction ball for holding at any given point.

Tool No.	Stock Size	Length
Z20T	3/4"	20"



3/4" Service Socket Wrench Extensions

Tool No.	Length
Z4E	4"
Z8E	8"
Z16E	16"

3/4" Service Reversible Ratchet



The MAC heavy duty ratchet is truly a ratchet of new design, positive in action, reversing accomplished by mere turn of handle. Strength and serviceability are incorporated in every part.

Tool No. Z1R

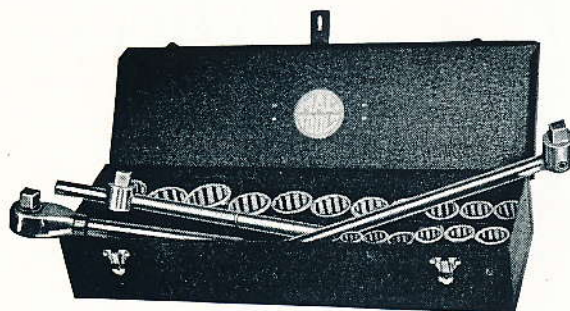


3/4" Service Standard Flex Handle



Tool No.	Stock Size	Length
Z20F	13/16"	20"
Z28F	13/16"	28"

3/4" Service MAC Socket Sets With Attachments



DeLuxe Set SZ22

SZ22 This 23-piece MAC 3/4" square drive heavy duty socket set is designed for use on heavy trucks, tractors, buses, and diesels. The set comes in a strong attractive metal carrying box and consists of 17 sockets ranging in sizes from 7/8" to 2" inclusive together with 6 attachments, as listed below:

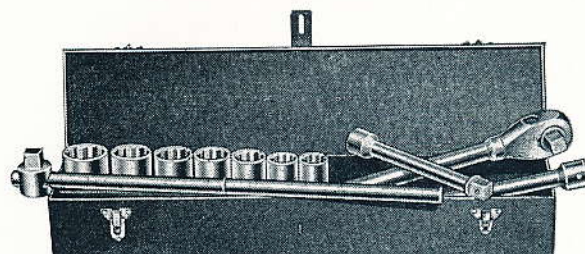
Tool No.	Description	Tool No.	Description
Z282	7/8" Skt.	Z542	1-11/16" Skt.
Z302	15/16" Skt.	Z562	1-3/4" Skt.
Z322	1" Skt.	Z582	1-13/16" Skt.
Z342	1-1/6" Skt.	Z602	1-7/8" Skt.
Z362	1-1/8" Skt.	Z642	2" Skt.
Z382	1-3/16" Skt.	Z4E	4" Extension
Z402	1-1/4" Skt.	Z8E	8" Extension
Z422	1-5/16" Skt.	Z16E	16" Extension
Z442	1-3/8" Skt.	Z20T	20" Tee Handle
Z462	1-7/16" Skt.	Z20F	20" Flex Handle
Z482	1-1/2" Skt.	Z1R	Rev. Ratchet
Z522	1-5/8" Skt.		

Standard Set SZ12

SZ12 This 18-piece set of MAC heavy duty 3/4" square drive also is designed to make work easier for the mechanic who has to work on heavy trucks, buses, diesels and heavy equipment. Like the SZ22, it is furnished with a strong and attractive metal carrying box. The set consists of 14 sockets ranging from 1 1/8" to 2" inclusive, together with 4 attachments as listed below:

Tool No.	Description	Tool No.	Description
Z342	1-1/16" Skt.	Z542	1-11/16" Skt.
Z362	1-1/8" Skt.	Z562	1-3/4" Skt.
Z382	1-3/16" Skt.	Z582	1-13/16" Skt.
Z402	1-1/4" Skt.	Z602	1-7/8" Skt.
Z422	1-5/16" Skt.	Z642	2" Skt.
Z442	1-3/8" Skt.	Z8E	8" Extension
Z462	1-7/16" Skt.	Z16E	16" Extension
Z482	1-1/2" Skt.	Z20T	20" Tee Handle
Z522	1-5/8" Skt.	Z1R	Rev. Ratchet

ZB1 Metal Box alone.



Regular Set SZ32

SZ32 Designed for heavy duty truck, tractor, or bus work, this set is reasonably priced and consists of an 11-piece assortment of 3/4" Service tools that will handle most everyday work of this character. Packed in a Metal Box containing one each of the following:

Tool No.	Description	Tool No.	Description
Z342	1-1/16" Skt.	Z522	1-5/8" Skt.
Z362	1-1/8" Skt.	Z8E	8" Extension
Z402	1-1/4" Skt.	Z16E	16" Extension
Z442	1-3/8" Skt.	Z20T	Sliding T-Hdl.
Z462	1-7/16" Skt.	Z1R	Ratchet
Z482	1-1/2" Skt.	ZB2	Metal Box

ZB2 Metal Box alone.

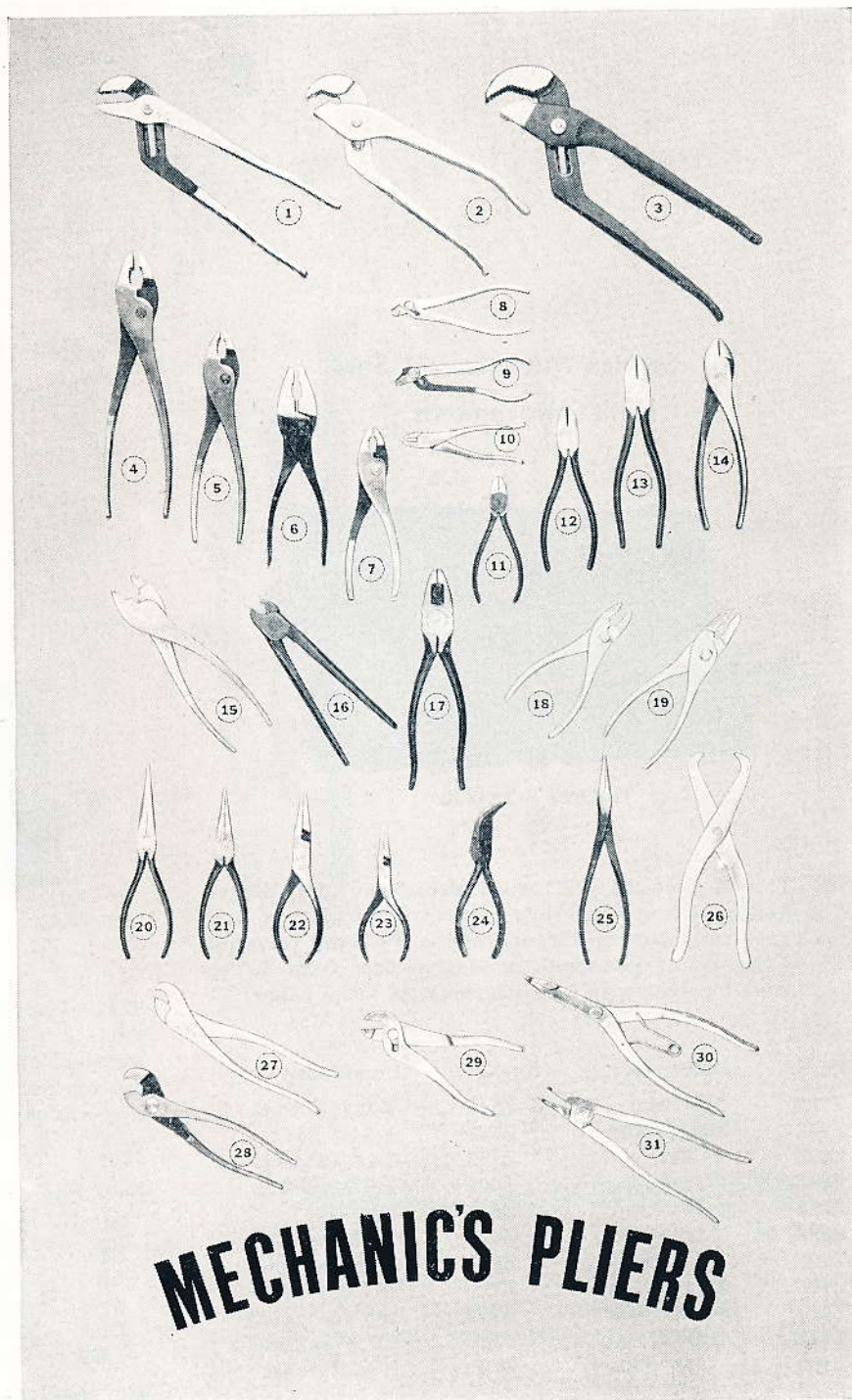


Mac Mechanic's Pliers

These Pliers are designed with their individual purpose in mind. Scientifically constructed to distribute strain over entire tool, assuring the maximum strength. Smooth, perfectly matched, easy riding precision machined joints. All "Mac" Pliers are tempered throughout, and perfectly balanced for their specific job. These Pliers are of highest grade steel and quality throughout. All Pliers are individually inspected and tested beyond their prescribed capacity. Mac Pliers make the professional mechanic's tool chest complete. Plate numbers shown on board correspond with the description number at left of page.

Pliers

Plate No.	Order No.	Description	Length
1	200	Pump Nut Plier	9½"
2	290	Pipe Plier	9"
3	292	Pipe Plier	12"
4	210	General Purpose Plier	10"
5	218	General Purpose Plier	8"
6	P-7	Slip Joint Plier with side cutter	7¼"
7	216	General Purpose Plier	6"
8	P-3	Ignition Plier—3 position slip joint	4½"
	P-3P	Same as No. 205 with Plastic Handles	
9	205	Ignition Plier—3 position slip joint	4½"
10	P-2	Midget General Purpose Plier	4½"
11	P-8	Midget Diagonal Cutting Plier	4½"
12	616	Diagonal Cutting Plier	6"
13	617	Diagonal Cutting Plier	7"
14	P-11	Lap Joint Diagonal Cutting Plier	7"
15	HP-8	Hose Clamp or Hog-Ring Plier	7½"
16	P818	Hog-Ring & Spring Plier	8"
17	648	Round Nose Lineman's Plier	8"
	648P	Same as No. 648 with Plastic Handles	8"
18	P-5	Thin Nose Slip Joint Plier	5"
19	P-6	Thin Nose Slip Joint Plier	6"
20	P-17	Long Needle Nose Plier, with Side Cutters	6½"
21	P-13	Long Chain Nose Plier	7"
22	P-16	Extra Thin Needle Nose Plier, with Wire Cutter and Stripper	6½"
23	P-4	Extra Thin Needle Nose Plier, with Wire Cutter and Stripper	4½"
24	P-6-C	Curved Needle Nose Plier	5½"
25	P-12	Duck Bill Plier with high leverage	8"
26	WP-1	Wheel Weight Pulling Plier	8"
27	P-15	Battery Plier—Thin Nose	7½"
28	207	Slip Joint Battery Plier—Thin Nose	7¼"
29	P-23	Parrot Nose Nut Plier	6"
30	P-20	Horse Shoe Lock Ring Plier—1½" Jaw Opening	9"
31	P-10	Snap Ring "Horse Shoe" Plier	8¼"



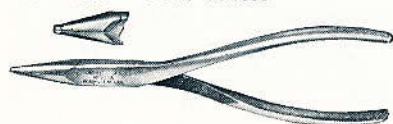
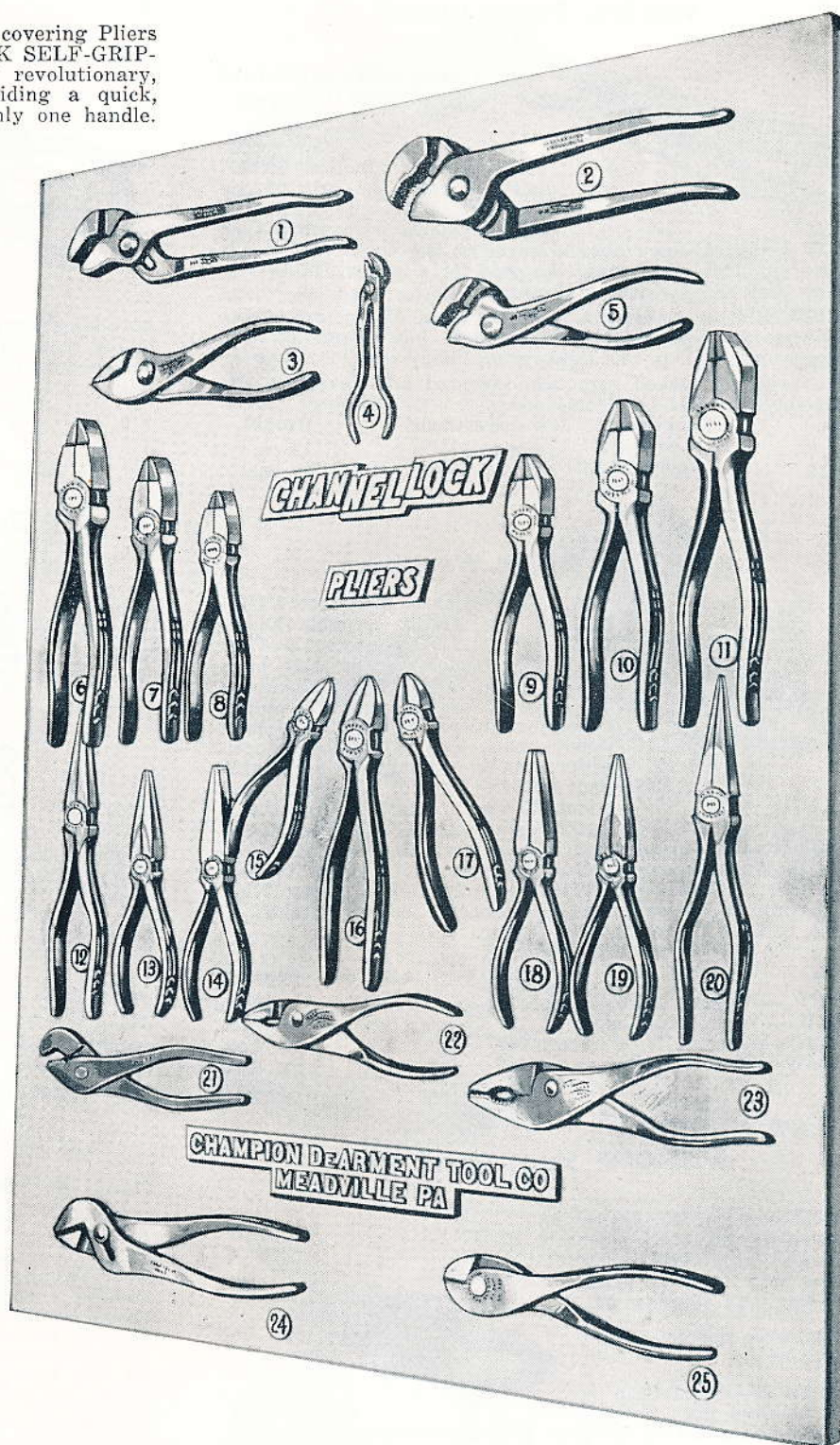
Channellock Pliers

As shown below, Plate No.'s 1, 2, 3, 4, and 5, covering Pliers 420, 410, 417, 424 and 407 are CHANNELOCK SELF-GRIPPING PLIERS which incorporate the new revolutionary, powerful gripping, Channellock design providing a quick, positive grip when pressure is applied to only one handle. The greater the pressure, the tighter the grip. The exclusive tongue and groove Channellock joint makes a plier far superior to the conventional type of ADJUSTABLE plier.

The balance of the Channellock pliers shown, are Standard Pattern Pliers which do not have the patented tongue and groove Channellock joint. However, they are manufactured with the same precision workmanship and high quality material. All Channellock Pliers are individually tested far beyond their intended capacity.

Plate Order

No.	No.	Description	Length
1	420	Pump Pliers	9½"
2	410	Gripping Pliers	9½"
3	417	General Utility Pliers	7"
4	424	Ignition Pliers	4½"
5	407	Gripping Pliers	7"
6	348½	Linemen's Pliers— Rounded Nose	8½"
7	347	Linemen's Pliers— Rounded Nose	7"
8	346	Linemen's Pliers— Rounded Nose	6"
9	3046	Linemen's Pliers— Bevel Nose	6"
10	3047	Linemen's Pliers— Bevel Nose	7"
11	3048½	Linemen's Pliers— Bevel Nose	8½"
12	317½	Long Needle-nose Pliers with Side-cutter	7½"
13	326	Needle-nose Pliers with Side-cutter	6"
14	366	Flat-Nose Pliers with Side-cutter	6"
15	435	Diagonal Cutting Pliers —Box Joint	5"
16	437	Diagonal Cutting Pliers —Box Joint	7"
17	436	Diagonal Cutting Pliers —Box Joint	6"
18	3066	Flat-Nose Pliers without Side-cutter	6"
19	3026	Needle-nose Pliers with- out Side-cutters	6"
20	3017½	Long Needle-nose Pliers without Side-cutter	7½"
21	307	Battery Pliers— Lap Joint	7"
22	516	Slip-Joint Pliers— Thin Nose	6"
23	537	Slip-Joint Pliers with Side-cutter	7"
24	568	Angle Nose Pliers— Slip-Joint	8"
25	337	Diagonal Cutting Pliers—Lap Joint	7"
26	3078	Long Reach Needle-nose	8"
27	447	Curved Diagonal Cutting Pliers	7"
28	356	End Cutter	6"



26



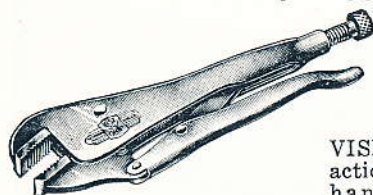
27



28



Vise-Grip Toggle Wrench



World's Most Powerful and Most Useful Hand Tool

WISE-GRIP's "Double-Lever" action enables the grip of one hand to lock the quickly-adjusted jaws with more than

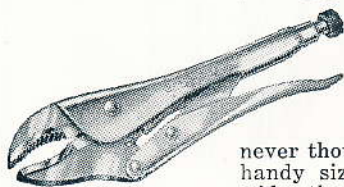
TON pressure. Jaws remain locked to the work, with hands removed, often eliminating the need for a helper. Holds anything, any shape, without slipping.

WISE-GRIP is actually a portable vise, clamp, adjustable end-wrench, pipe-wrench, super-plier, locking-wrench and toggle-press—all in one light, handy tool.

The powerful locked grip was invented and developed exclusively by WISE-GRIP engineers.

No.	Length	Jaw Adjustment	Weight
V-7	7"	Up to 1 1/4"	12 oz.
V-10	10"	Up to 1 1/2"	19 oz.

Vise-Grip Toggle Wrenches



These great new WISE-GRIPs provide versatility never before achieved in any hand tools. They provide a range of jaw openings

never thought possible in tools of these handy sizes: The 10" size will open wider than an ordinary 15" adjustable end wrench. The 7" size will open wider than an ordinary 12" adjustable end wrench. Both 10" and 7" sizes are

available with or without wire cutter. The new Vise-Grip Toggle-Wrench is actually all these: 1. Adjustable End Wrench. 2. Super Pipe Wrench. 3. Thin-Nose Super Plier. 4. Clamp. 5. Portable Toggle Press. 6. Locking Wrench. 7. Vise. 8. Wire Cutter. 9. Bolt Cutter.

No.	Size	Jaw Thick.	Jaw Adjust'mt	Weight
V-7C —Without Wire Cutter	7"	1/4"	1 1/8"	10 oz.
V-7W —With Wire Cutter	7"	1/4"	1 1/8"	10 oz.
V-10C —Without Wire Cutter	10"	3/8"	1 1/8"	1 lb. 4 oz.
V-10W —With Wire Cutter	10"	3/8"	1 1/8"	1 lb. 4 oz.

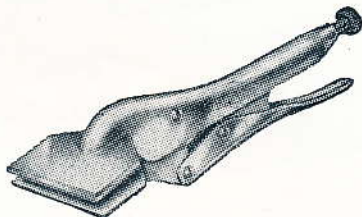
WISE-GRIP Sheet Metal Tool

LOCKS to the work with powerful grip. Material cannot slip, giving a smoother, more accurate bending and shaping job.

Eliminates tiresome hand-gripping.

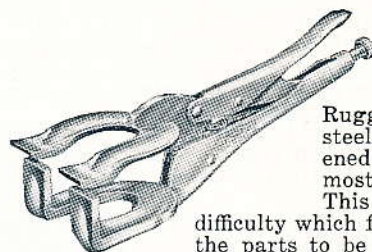
Where a Locked Grip is not required, merely tighten the end-screw so the jaws give non-locking Plier Action.

Does all kinds of bending, forming and crimping, locks templates to blank sheets, holds sheet metal strips for welding, works inside stacks, bends lead strips, etc.



No.	Length	Jaw Width	Throat Depth	Wt. Each	Wt. Doz.
No. V-8	8"	3 1/8"	1 3/4"	18 oz.	15 lb.

Vise-Grip Welding Clamp



This handy tool leaves both hands free for welding work. Every Welder needs this clamp.

Ruggedly built of special alloy steels and scientifically hardened and tempered for the utmost in strength and durability.

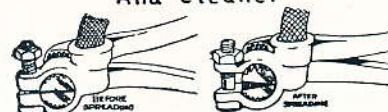
This special tool overcomes a difficulty which faces every welder—aligning the parts to be welded—and holding these parts in alignment, so both hands are free for the welding work. Thousands of welders have sought such a tool—WISE-GRIP has produced it by combining their famous locking-toggle-wrench with jaws specially designed for the needs of the welder.

No.	Length	Jaw Adjustment	Shipping Weight
V-9	9"	Up to 1 5/8"	2 lbs.

Clamp Spreader and Cleaner



BLUE BIRD Terminal Spreader And Cleaner



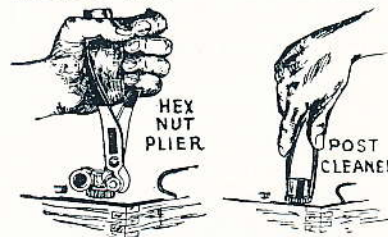
A quick, easy and efficient way to spread and clean terminal clamps after removal from post in one operation and without distortion.

No. BP-20	7 1/2" Long	Wt. 11 oz.
-----------	-------------	------------

No. 11 Hex Nut Plier and Post Cleaner



No. 11 BLUE BIRD Hex Nut Plier & Post Cleaner



A self-locking plier that will not slip and cause damage to battery! Its super-leverage overcomes the most stubborn nut. Also serves as a general purpose nut wrench especially adaptable for brake nut adjusting. Attached post cleaner insures perfect contact and stops energy loss.

No. BP-11	7 1/2" Long	Wt. 9 oz.
-----------	-------------	-----------



Garage Inflator Gauge

This gauge is easier to read with its fine line indicator. Lever control fits your hand, is well balanced and of rugged construction.

Has factory set replacement cartridges, which can be inserted on the spot, no waiting for repairs.



- No.
505 Inflator Gauge—Single Head
506 Inflator Gauge—Double Head
507 Replacement Cartridge

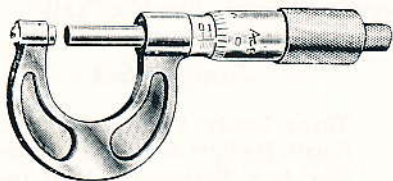
Pencil Type Air Gauge



This gauge is designed for the service man who wants the best. It is ACCURATE, STURDY and also DEPENDABLE. Chrome plated, with square, full-swivel bar evenly marked in 1-lb. graduations on all four sides which are easy to read.

- No.
TG-515 Pencil Tire Gauge.

Micrometer

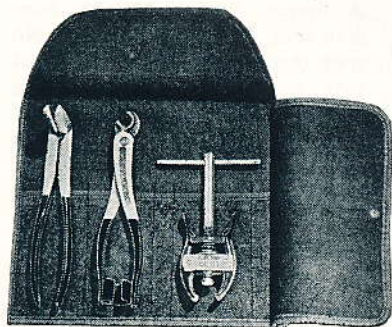


A precision measuring tool at a reasonable price. Correctly proportioned to minimize spring or distortion of frame. Frame is die cast from special alloy; all other parts are steel.

1. Accuracy guaranteed to .0005 in full range of micrometer.
2. Screw type anvil makes zero adjustment easily obtainable.
3. Accurate thread on spindle running in a steel bushing firmly fixed to frame, preserves accuracy in continued use.
4. Every Micrometer is checked for accuracy with gauge blocks.

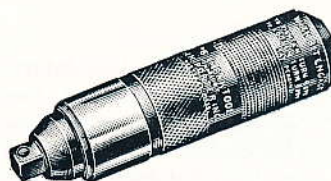
- No.
M100RS Micrometer

Battery Tool Set



- No. BP22K

Three popular and indispensable battery tools packed in a handy leatherette kit of blue. It keeps battery tools in one spot, and will fit into the service man's pocket, a convenient thing on service calls. Complete battery service kit to do the job. Kit is acid resistant.



Impakdriver

This is the answer to a mechanic's dream for problem screws, bolts or nuts which refuse to be turned. This tool saves dollars and hours, tempers and skinned knuckles. Pays for itself on the first tough job made easy. Equipped with $\frac{3}{8}$ " service, used with sockets and screwdriver bits. Just twist and rap. Twist in the desired direction . . . rap with hammer . . . and presto, screws, bolts or nuts loosened in a jiffy. That's why the Impakdriver belongs in every mechanic's tool chest.

- No.
ID-67 Impakdriver

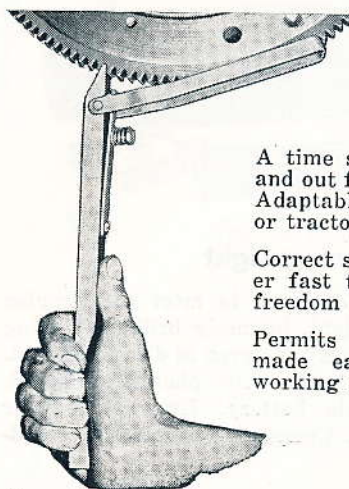
Ingersoll-Rand Impactool



Here's a tool that's easy to hold. You get no torque reaction — no kick — no twist — under any condition. The hardest job now becomes easiest. Available in the following sizes.

Socket Driver		
No.	Size	
4-UC	$\frac{1}{2}$ "	Complete with accessories
4-U	$\frac{1}{2}$ "	Tool, with cable and plug
8-UC	$\frac{5}{8}$ "	Complete with accessories
8-U	$\frac{5}{8}$ "	Tool, with cable and plug

*All Accessories are available on order.



Flywheel Turner

A time saver, eliminates crawling in and out from under car to turn motor. Adaptable to any make car, truck, bus or tractor.

Correct spring tension holds the turner fast to flywheel giving mechanic freedom of both hands.

Permits desired adjustments to be made easily from the mechanic's working position under the car.

- No.
FT-12 Flywheel Turner
FT-12S Spanner Only



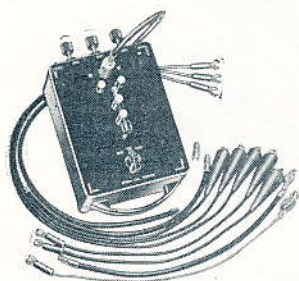
Volt-Ammeter



No.
ET-102 Volt-Ammeter — Size 8" x 5" x 2½".

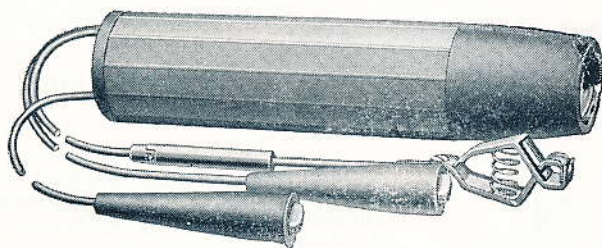
Tests Voltage Regulators, Generators, Batteries, Car Wiring and Accessories. Check Voltage Regulators and current regulators accurately. For 6 and 12-volt systems. Supplied with pair of 4-foot test leads and complete instructions. Has 4½" Meter Scale, rubber feet for setting on fender.

Spark Coil Tester



No.
ET-103 Spark Coil Tester — Size 8" x 5" x 2½"

This tester tests all coils and does it while the coil is still on the car. Directly compares the coil being tested with a built-in standard coil. Has built-in interrupter and condenser. Supplied with a sufficient variety of test leads to meet every situation and complete instructions. Practical, reliable, and easy to operate. It's PORTABLE, use it anywhere.

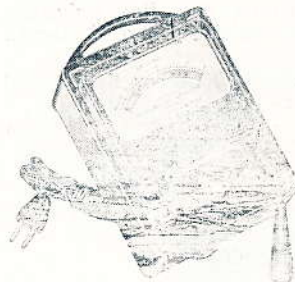


Power Timing Light

This power timing light is designed to meet the popular demand for small, featherweight, intensely brilliant Timing Light. Makes ignition timing easy . . . even in direct sunlight. Intense blue-white focused beam with photoflash speed. Operates from 6-volt vehicle battery. External resistor available for 12-volt system. Compact—resembles a standard flashlight.

No.
TL9-P Power Timing Light.
AR-112 External resistor for 12-Volt operation

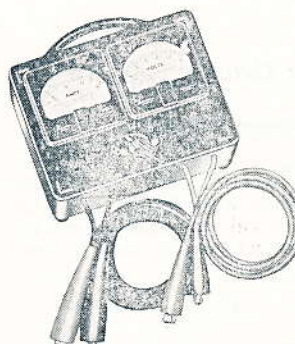
500 Volt — Condenser Tester



No.
ET-105 Condenser Leakage Tester—Size 8" x 5" x 2½"

This tester quickly and accurately measures quality of all types of automotive condensers. Large, easy to read Meter has "GOOD" and "BAD" scale. Also tells how good or how bad. Range 0 to 100 Megohms. No tubes, lamps or batteries to replace.

Generator & Regulator Tester (Heavy Duty)



No.
ET-AVR Generator & Regulator Tester—Size 8"x5"x2½"

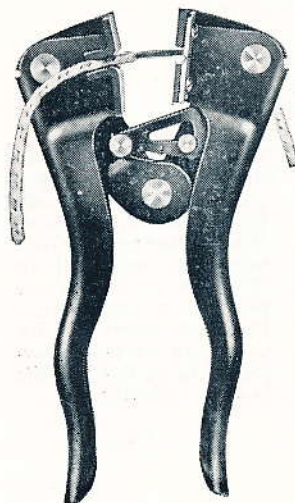
Has resistor, will not burn out. It is Fast, Accurate, built rugged and completely PORTABLE. Tests volts and amperes simultaneously on any car.

Jumper Set



No.
JS-3 Jumper Set.

Three handy 24-inch jumpers. Small, Medium and Large. Flexible, Low Resistance—Well Insulated. Wire is of adequate size to match the high quality soldered test clips.

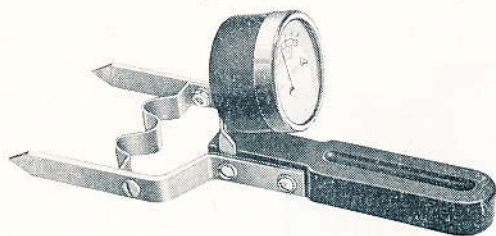


"Whiz" Wire Stripper

A simple, durable and inexpensive tool, of highest quality. No tool chest is complete without this. It has a three-hole blade and will take wires up to ⅝" O.D. It gauges No. 12 and smaller. This tool does a slick, clean job. Equipped with automatic grip release after stripping. Extra blades are available for replacement.

No. WS-1 Wire Stripper.

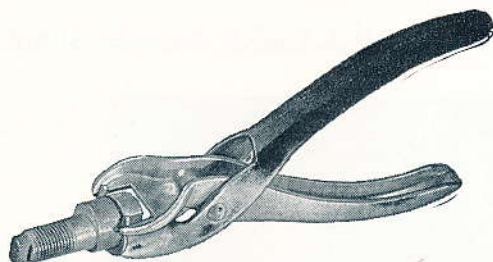
Battery Cell Tester



This is a simple, accurate and understandable battery tester. Locates weak or shorted cells instantly. Meter is center zero calibrated 0 to 2 volts. Individual battery cell condition is shown on colored scale which indicates—"CHARGE", "DISCHARGE", and "DEAD", together with actual cell voltage. Sturdily built . . . conservatively priced . . . easy to use.

No. BT-3 Battery Cell Tester

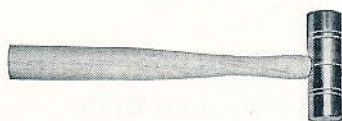
Anchor Pin "C" Washer Plier



Rugged Pressed Steel; sound in design; serviceable in construction, and case hardened for long service life when used for the purpose for which intended. Quickly removes a stuck "C" Washer with only one tool. Makes fast repairs to Lock-heed hydraulic brake systems.

No. BP-5

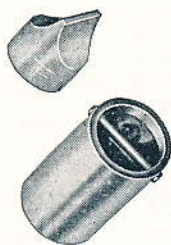
Brass Hammer



A hammer designed for driving on or off, bearings or bushings, or any other parts requiring hard taps without danger of injury. Has genuine Hickory handle.

No.	Weight
BRH-15	1½ lbs.

Chevrolet Pan Tool (magnetized)



No. CS-15

A handy tool for use in removing and replacing Chevrolet Pan Screws. It is magnetized so that it will hold on to the pan screw and can be used with a ⅜" dr. speed handle. It's fast and sure. It also has a wide screwdriver end attachment, which fits the magnetized end and can be used for stubborn screwdriver fittings, where more than average power and leverage are needed.

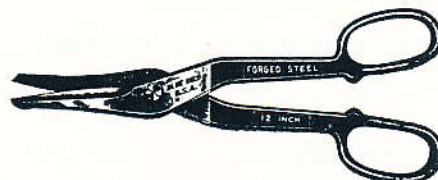
Straight Pattern Tinner's Snips



Highest quality Tinner's Snips for the discriminating trade. Machine hollow ground—carefully heat treated. Blades high polished—handles finished in blue lacquer.

No.	Length
TS- 7S	7"
TS-12S	12"

Combination Circle Pattern Tinner's Snips



Solid drop forged from special analysis high carbon steel. Machine hollow ground and carefully heat treated. Adapted for cutting straight, circular and irregular shapes, scrolls or intricate patterns.

No.	Length
TS- 7C	7"
TS-12C	12"

Wiss Snips

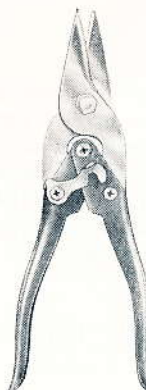
One of the outstanding new developments in design and construction. Compound leverage produces amazing cutting power with minimum effort. Readily cuts circles, squares or any pattern, however intricate, from Stainless, Dural, and Monel metals up to 20 gauge. Also cuts ends of tubing, exhaust manifolds, etc. Packed individually.



No.	Overall Length	Length of Cut	Weight Ea.
SM-1 (Cuts Left)	10 in.	1⅜"	12 ozs.
SM-2 (Cuts Right)	10 in.	1⅜"	12 ozs.
SM-3 (Cuts Straight & Combination)	10 in.	1⅜"	12 ozs.

Hancock "Shear Magic" Snips

New in style, power and results, with DOUBLE COMPOUND ACTION. Shear Magic snips are highest quality in every detail. Long life serrated polished blades, with easy grip knurled steel handles. Blades have long life and easily cut brass, copper, aluminum, silver, steel, gold or practically any metal. Do not use for spring steel cutting.



No.	Size	Wt.	Cut
TS300	10½ RH	1 lb.	1¾
TS301	10½ LH	1 lb.	1¾
TS310	10½	2 lb.	2



Ezy-Out Screw Extractors



Insure your shop with these screw extractors, a necessary tool to eliminate those headaches on stubborn deeply embedded screws.

These are available in the following sizes:

	Small Diam.	Large Diam.	Length
EO-1	.054	5/32"	2"
EO-2	.080	3/16"	2-3/8"
EO-3	1/8"	1/4"	2-11/16"
EO-4	3/16"	21/64"	2-7/8"
EO-5	1/4"	7/16"	3-3/8"
EO-6	3/8"	19/32"	3-3/4"

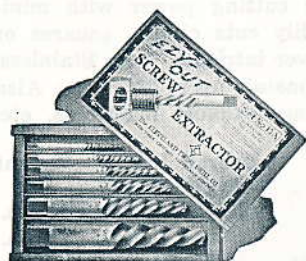
Ezy-Out Screw Extractor (sets)



The No. 15 set includes the following numbers and sizes. Contained in a varnished box with slide cover.

EO-1	.054" to 5/32"	EO-4	3/16" to 21/64"
EO-2	.080" to 3/16"	EO-5	1/4" to 7/16"
EO-3	1/8" to 1/4"		

No. EO-15 Set.

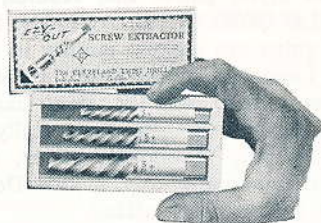


The No. 15A set consists of the following numbers and sizes.

Comes in partitioned varnished finished box.

EO-1	.054" to 5/32"	EO-4	3/16" to 21/64"
EO-2	.080" to 3/16"	EO-5	1/4" to 7/16"
EO-3	1/8" to 1/4"	EO-6	3/8" to 19/32"

No. EO-15A Set.

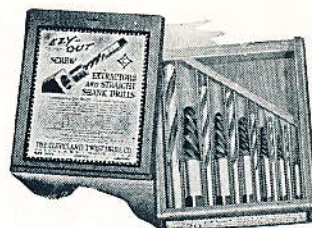


The No. 17 set is made up of the numbers and sizes shown below. Packaged in fine finish varnished box, with slide cover.

EO-4	3/16" to 21/64"	EO-6	3/8" to 19/32"
EO-5	1/4" to 7/16"		

No. EO-17 Set.

Ezy-Out Screw Extractor (sets)



The No. 20 set consists of the following numbers and sizes, packed in smooth varnished box.

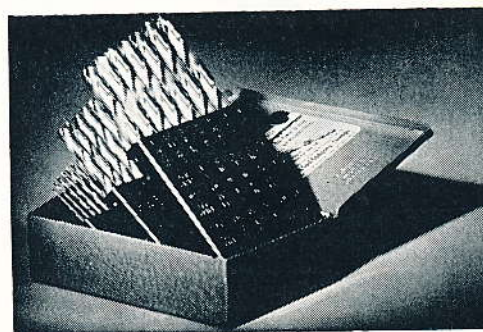
This set includes an individual drill with each Ezy-Out. Totals, 6 Ezy-Outs and 6 drills. A complete set.

EO-1	.054" to 5/32"	EO-4	3/16" to 21/64"
EO-2	.080" to 3/16"	EO-5	1/4" to 7/16"
EO-3	1/8" to 1/4"	EO-6	3/8" to 19/32"

(Plus six drills)

No. EO-20 Set

Drill Sets (High-Speed) Straight Shanks



These High Speed Drills are of highest quality and manufactured under most exacting requirements and specifications. Can be purchased individually. Three different "sized sets" to meet your requirements.

DM-1	29 Drills 1/16" to 1/2" by 64ths
DM-3	13 Drills 1/16" to 1/4" by 64ths
DM-15	15 Drills 1/16" to 1/2" by 32nds

(All Sets in Metal Cases)

Individual Drills

No.	Drill Size Inches	Dec. Equiv. Inches	No.	Drill Size Inches	Dec. Equiv. Inches
HD4	1/16	.0625	HD19	19/64	.2969
HD5	5/64	.0781	HD20	5/16	.3125
HD6	3/32	.0937	HD21	21/64	.3281
HD7	7/64	.1094	HD22	11/32	.3437
HD8	1/8	.1250	HD23	23/64	.3594
HD9	9/64	.1406	HD24	3/8	.3750
HD10	5/32	.1562	HD25	25/64	.3906
HD11	11/64	.1719	HD26	13/32	.4062
HD12	3/16	.1875	HD27	27/64	.4219
HD13	13/64	.2031	HD28	7/16	.4375
HD14	7/32	.2187	HD29	29/64	.4531
HD15	15/64	.2344	HD30	15/32	.4687
HD16	1/4	.2500	HD31	31/64	.4844
HD17	17/64	.2656	HD32	1/2	.5000
HD18	9/32	.2812			

METAL DRILL INDEX ONLY

No. DM-1B	For Drills 1/16" to 1/2"
No. DM-3B	For Drills 1/16" to 1/4"
No. DM-15B	For Drills 1/16" to 1/2"



Hood Jack



As the above illustration shows this is the up-to-the-minute tool for holding hoods. Being telescope type, pull inside shaft to length desired, as tool then locks at this point. To release simply squeeze holding point.

HJ-1 Length from 26½" Closed to 52" Open

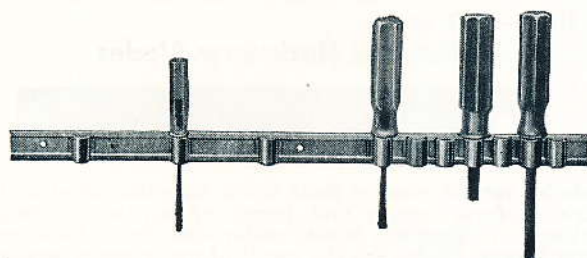
Socket Holder



Socket holders are 18" in length. Will accommodate 16 sockets, with adjustable sliding. Mounting holes in heavy steel base permit fastening rack to wall, work bench or inside standard size tool box. Available in 2 sizes. Cadmium finish.

No.
SII-38 For ¾" Service Socket
SII-50 For ½" Service Socket

Screw Driver Holder



Holder accommodates 10 screw drivers. Adjustable, sliding, spring steel holders. Mounting holes in base to permit fastening to wall, work bench, or tool box. Cadmium finish.

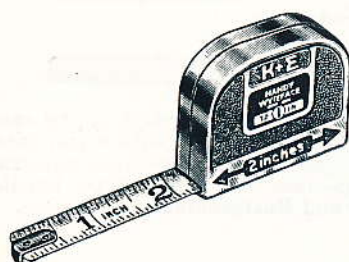
No.
SII-75

Hub Cap Tool

This tool will not dent or scratch hub caps or wheel rims. Makes stubborn hub caps and wheel rims come off easy. Quick, positive hub cap removal and saves labor and money in repairs and replacements. Rubber-covered steel pad gives you safe leverage and prevents hub cap from snapping off and falling on concrete.

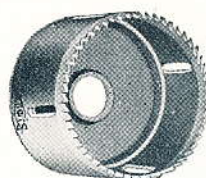
No. **HC-1** Hub Cap Tool.

White Face Tapes



Tape of snow white enamel with black figures, easy to read. Will not crack or peel — moisture-proof and acid-proof.

No.	Length
306-W	6'
308-W	8'
310-W	10'
306-R Refill Only	6'
308-R Refill Only	8'
310-R Refill Only	10'



High Speed Hole Saws

The High Speed Steel Teeth with chrome-vanadium blade have great strength, cutting ability and long life. Depth 1½".

Hole Saws Only
(Without Arbors)

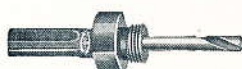
Size	Arbor to Use
No. RC 375 ⅝" dia.	No. RC351 with ¼" Elec. Drill
No. RC 377 ¾" dia.	
No. RC 378 ⅞" dia.	
No. RC 379 1" dia.	
No. RC 380 1⅛" dia.	Use No. RC353 with ½" Elec. Drill.
No. RC 381 1¼" dia.	
No. RC 383 1½" dia.	
No. RC 385 1¾" dia.	
No. RC 387 2" dia.	

(Not Replaceable)



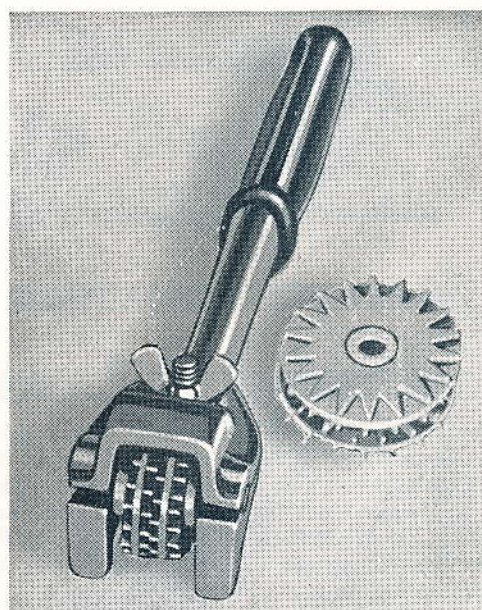
No.
RC351A Pilot Drill only for No. 351 Arbor.

No. RC351 — Arbor for hole saws, ⅝" to 1⅛", inclusive. Used with ¼" and larger electric drills.



No. RC353—Arbor with pilot drill for hole saws 1¼" and over.

Grinding Wheel Dresser and Cutter



WDO

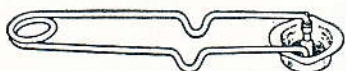
WDOC

The sturdy handle of this tool provides a grip that really fits the hand. The cap is designed to serve directly as the upper clamp for the Spindle Bearing and the entire assembly. Each set of cutters is provided with a sleeve which eliminates spindle wear. Cutters are milled and have uniform sharp teeth, and are heat treated to insure maximum resistance to wear. They retain their sharp edge until completely worn out.

No.
WDO —Grinding Wheel Dresser.
WDOC—Grinding Wheel Star Cutters. 1½" Diameter. Set includes 4 cutters, 2 washers and sleeve.



Shurlite Torch Lighter & Flints



SPECIALLY DESIGNED HOOD, protects file and forms a pocket for the gas, insuring instant lighting.

HEAVY DUTY ROUND FILE, may be turned slightly from time to time to provide a fresh surface for the flint.

LARGE SPARK TIP, can produce as many as 1500 ignitions before replacement is necessary.

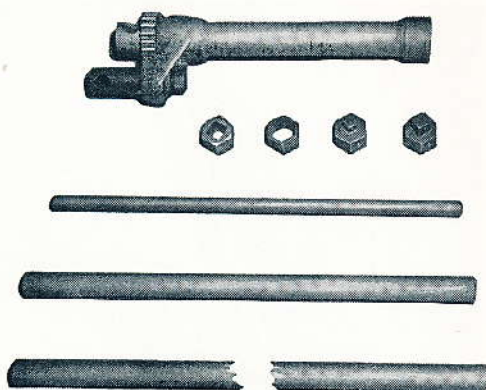
HIGH QUALITY STEEL WIRE, properly tempered to retain its tension. Is tinned for rust prevention.



Finest quality flint, just right for maximum ignitions with minimum file wear. Will fit all standard threaded lighters. Packed six to a box.

No.
TL2001 Torch Lighter
TL2001X Torch Lighter Flints

Wheel-Powerench (for Budd Dual Wheels)



Geared for stubborn nuts. This wrench is four wrenches in one: inner wrench, outer wrench, plus two speed wrenches. Has 3 to 1 ratio on hex nut, loosens square nut, "Speeds Off" hex nut, and square nut, and also will remove nuts from broken studs. A WRENCH WITHIN A WRENCH. Inner wrench anchors to square nut while outer wrench applies 3 to 1 ratio on hex nut.

Wheels cannot be incorrectly mounted with a POWERENCH.

Adaptors available for motor wheel, inner cap nut, and for $\frac{1}{2}$ " square drive and $\frac{3}{4}$ " square drive, which enables the Powerench to be used with all standard $\frac{1}{2}$ " and $\frac{3}{4}$ " sockets.

No.
PW-124 Powerench Set
PW-15 $\frac{1}{2}$ " Drive Socket Adaptor
PW-17 $\frac{3}{4}$ " Drive Socket Adaptor
PA-12 Motor Wheel Adaptor
PA-64 Inner Cap Nut Adaptor
PT-36 36" Tube Handle

De Luxe Hack Saw Frame



Good, rigid construction with perfect balance reduces possibility of blade "whip" breakage and make this hack-saw easy to work with. The handle and rear portion are a one-piece design with hand aperture large enough for ample knuckle clearance. Red pyralin hand grips give a firm hold and stand out in attractive contrast to the full-plated and highly polished frame.

The handle is underslung and designed so power is delivered along the line of the blade . . . resulting in easier, faster cutting. Accommodates all standard blades.

No.
HS-4—Standard Hack Saw Frame.
HS-5—De Luxe Hack Saw Frame.

Low Back Hack Saw



Low backed Hack Saw using all steel construction for 10" saw blades. All parts are fully heat treated, and the blade is adjustable through the handle in securing the desired tension.

No. HS-3—Hack Saw.

Standard Hack Saw Blades



Made by special process from finest tungsten steel assuring tough, uniform temper and degree of hardness throughout the blade . . . They cut faster, easier, and retain their cutting power longer. Blades are the result of many years' experience in blade manufacture and of the highest possible quality.

Sold in Dozen Lots Only.

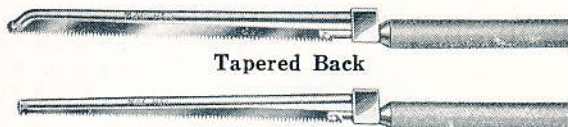
No.	Length	
HS-6—Junior Blades—6"	Length	(Pkg. of 10)
HS-10	10"—24 Point	(Pkg. of 10)
HS-12	12"—24 Point	(Pkg. of 10)

High Speed Blades

In hand frame or power machine, the High Speed Blade will deliver maximum cutting service on any material, at higher speeds, without danger of shattering. Every user of hack saw blades can profit by elimination of breakage, the saving in time, the faster cutting speeds, and reduction of accidents made possible by this remarkable blade.

No.	Length	
HS-10H	10"—24 Point	(Pkg. of 10)
HS-12H	12"—24 Point	(Pkg. of 10)
HS-10H-2	10"—32 Point	(Pkg. of 10)
HS-12H-2	12"—32 Point	(Pkg. of 10)

Junior Hack Saws



Tapered Back

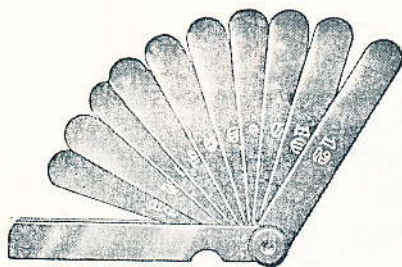
Straight Back

These hack saw frames are the ideal bushing and tubing saw for extremely hard to reach places. Equipped with a standard 6-inch fine-tooth pin type blade—cuts smoothly—removes very little stock. Easy grip—non-slip, screw type handle adjusts blade tension. Plated and Rustproofed.

No.
HS-1—Tapered Back
HS-2—Straight Back



Quality Feeler Gauges

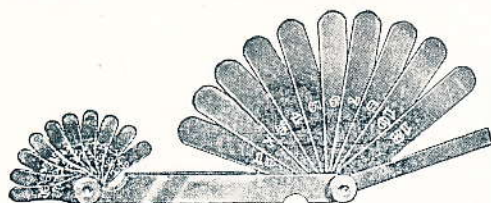


No. FG-1

10 BLADE GAUGE

10 Blade, 3 1/2" long.
Contains 1 each .004,
.005, .006, .007, .008,
.009, .010, .012, .013,
.015.

Combination Feeler Gauge

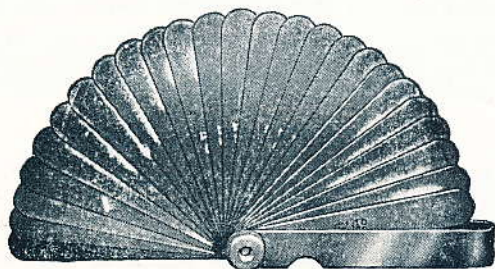


10 1 1/4" Blades		10 3 1/2" Blades	
Sizes .012 .018 .024 .028		Sizes .002 .005 .008 .013	
.013 .020 .025 .032		.003 .006 .010 .015	
.014 .022		.004 .007	

No. FG-2

1 Coil Point File

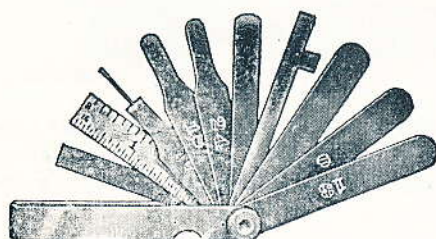
Master 25-Blade Gauge



Sizes: .0015 .002 .003 .004 .005 .006 .007 .008 .009 .010
.011 .012 .013 .014 .015 .016 .018 .020 .022 .024
.025 .028 .030 .032 .035

No. FG-3

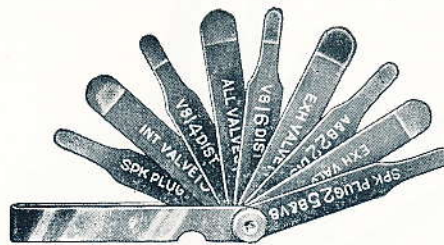
Special Chevrolet Feeler Gauge



No. FG-4

Contains four 1/2" wide blades — .006, .008, .013 and .015 thicknesses; three 1/4" fingers — .018, .024 and .032 thicknesses. Two wire type blades .035 and .040. Also 3" scale and point bender.

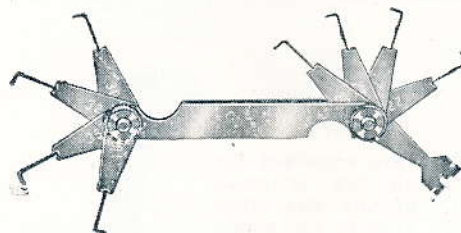
Special Ford Gauge (10 Blade)



"Go and No-Go" Feeler Gauge"—.025 for spark plugs on models "B" and V-8, .022 for valves on model "B," .022 with narrow tip for distributor on models "A" and "B," .017 for valves on model "A," .016 for V-8 distributor, .014 with narrow end for V-8 distributor, .014 for all valves on V-8, .013 for valves on models "A" and "B," and .035 for spark plugs on model "A." Also blade .013 - .015, making gauge complete for all Fords to and including 1949.

No. FG-5

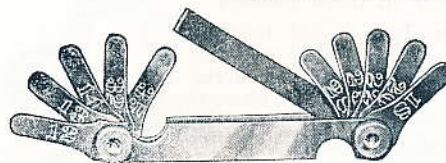
Spark Plug Gauge



No. FG-6

This Gauge consists of one each .022, .025, .027, .028, .030, .032, .035, and .040 Wire Gauges, and Point Bender.

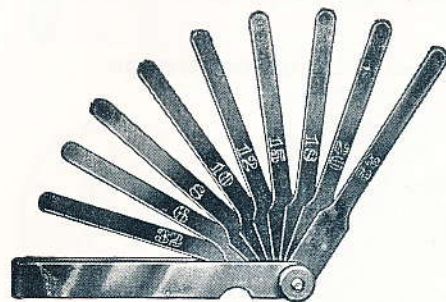
Ignition Gauge



No. FG-7

Blade Sizes: .012, .013, .014, .018, .020, .022, .025, .028, .032, .035 and File.

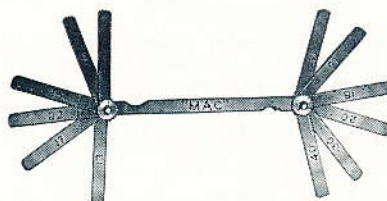
Brake Gauge



No. FG-8

Contains one each .006, .008, .010, .012, .015, .016, .020, .022, and .032.

Ignition Gauge

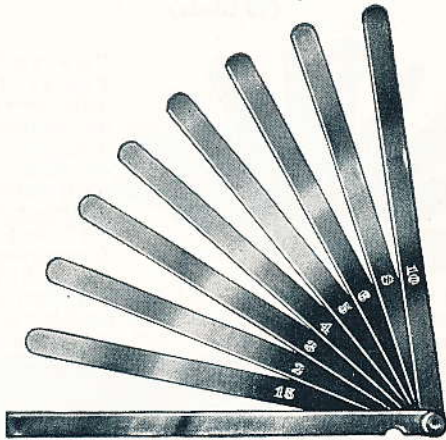


Contains twelve blades, 1 1/2" long, 3/8" wide. One each .013, .014, .016, .017, .018, .020, .022, .025, .028, .030, .032, .040. For points and spark plugs.

No. FG-15



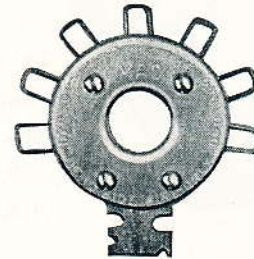
Piston Gauge



8 Blade, 9" long. Contains 1 each .002, .003, .004, .005, .006, .008, .010, .015.

No. FG-9

Round Spark Plug Wire Gauge (with point bender)



The convenient round-type spark plug gauge with sizes .020, .025, .028, .030, .035, .038, .040. Also, point bender and adjuster with sizes .055, .065, .110 and .140.

No.
FG18

Feeler Stock Holders

Holders are excellent for roll stock use. A small supply of any size stock can be kept in the single end, being pulled out as needed.

Our 12" Blades also are handy in these Holders.

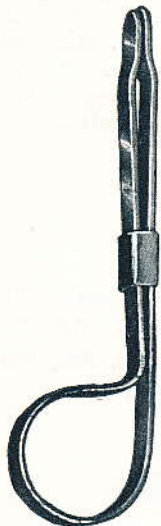
The double end holds 2 sizes stock for valve work. One end for intake valves, the other for exhaust valves. Mechanics like these Holders.

No. FG-10

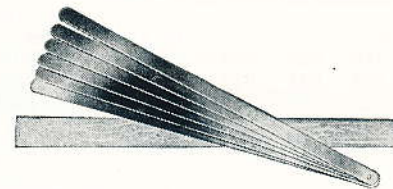
Single End—Length 5½"

No. FG-11

Double End—Length 6"



12" Feeler Gauge Stock



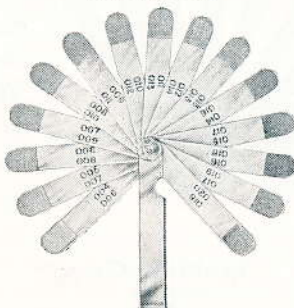
Carried in 12" lengths only, in all sizes from .0015 to .040 inclusive. ½" wide. Size marking and punched. Packaged in lots of six pieces. In ordering merely specify size required.

3½" Extra Feeler Blades



3½" blades carried in stock in all sizes from .0015 to .040 inclusive. ½" wide. Size marking and punched. Packed in lots of six pieces. In ordering merely specify size required.

15-Blade General Purpose Gauge (Go-No-Go)



This general purpose "GO-NO-GO" feeler gauge consists of 15 blades in the following sizes. .004 to .006, .005 to .007, .006 to .008, .007 to .009, .008 to .010, .009 to .011, .010 to .012, .011 to .013, .012 to .014, .013 to .015, .014 to .016, .015 to .017, .016 to .018, .017 to .019, .018 to .020. All blades are 3½" long.

No.
FG-14 General Purpose Go-No-Go Gauge.

Brake Spring Compressor



A TIME and TEMPER saver. Fits both flat and regular type brake cups. Eliminates cut fingers and loss of time removing brake cups. A push and a turn and the cup and spring are released or fastened.

No.
BC45

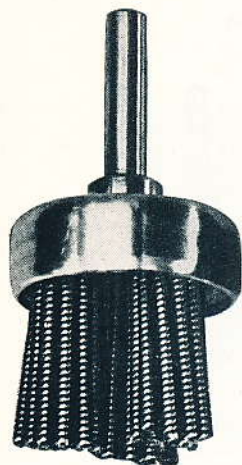


Coiled Wire Brushes

A new service with flare-whipping and rotary action. Bristles will not lie down like straight or crimped wire. Curly-heads stand up in clusters of coiled wire. Powerful spring tension prevents snarling, handles easily, no jerking or jumping. **SAVES WEAR ON DRILL.** Gets into close corners, valve parts, around bolts, etc., leaving burnished surface to which carbon does not readily adhere.

No. WB-2

Coiled Wire Brush (three section)



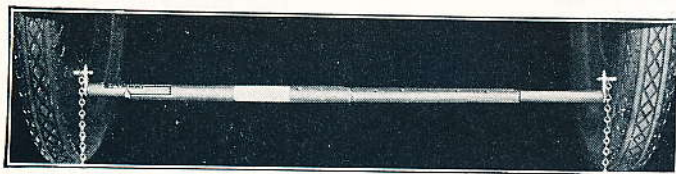
Curly-head brush, 1 section for channels, etc., that cannot be reached by larger types.

WB-3 —Coiled Wire Brush (one section)

WB-3R—Refill for WB3

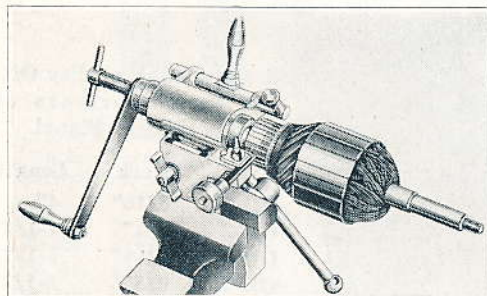


Wheel Alignment Gauge



This aligning gauge is absolutely accurate on all cars, including those with independent suspension and double tie-rod. It is instantly adjustable. Cannot become inaccurate even though bent or worn, for the straightness or squareness does not enter into the test.

No. WG-361 Wheel Alignment Gauge.



Armature Lathe

(For Turning and Undercutting Starter and Generator Commutators)

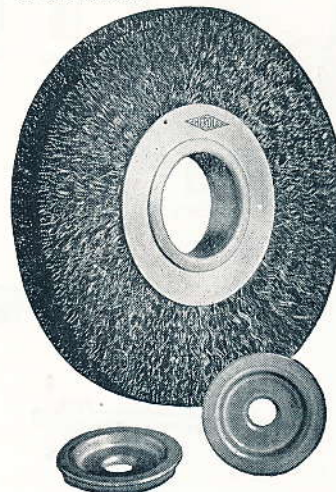
This is a quick, accurate and inexpensive tool. Body of tool is of high grade zinc alloy die casting, cutting blade is highest grade tool steel. Mica undercutting saw is of best grade saw-blade stock. Turning cut is all automatic, and Commutator turning operation requires about 1½ minutes. This tool increases shop efficiency and profit.

No. AL-25

Armature Lathe.

Heavy Duty Wheel Brushes

The Quality material used for these wire brushes and excellent workmanship make them the toughest and longest lasting on the market. The crimped wire bristles will wear evenly, thus giving maximum amount of wear right down to the arbor.



No. WW-6
WW-6T
(H.D. Tempered Wire)

Dia.
6"

Any size may be had in any size arbor hole, from ½" up. When ordering be sure to specify Arbor Hole.

ADAPTER FOR DRILL CHUCK

A sturdy adapter for mounting wheel and cup brushes to a drill chuck. Can be had with ¼", ⅜" or ½" shank. Cadmium plated for rust prevention.



No.	Size
CA-1	¼"
CA-2	⅜"
CA-3	½"

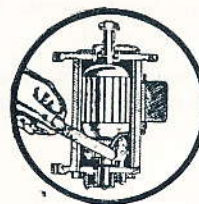
Heavy Duty Carbon Cleaning Brushes



"Cable Twist" carbon or end brush is made of high swain music type wire tightly twisted into knots securely fastened into a 1" diameter metal cup and fitted with a ¼" diameter spindle shank. Brush part extends 1¼" out.

We also carry the Carbon Cleaning Brush in crimped wire not twisted.

No. WB-5—Cable Twist



Flexstone "GETS to the POINT"

Can be bent or twisted and won't break. You can use it in awkward corners where you can't get with a steel "point file." Will not short circuit.

No. FS-1—Length 4½"
FS-2—Length 4½", .025" Thick.

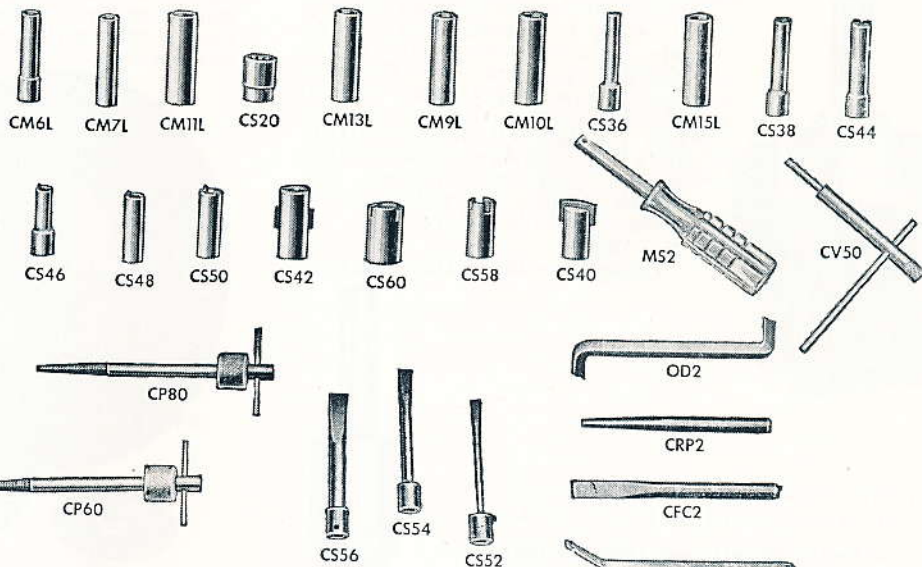
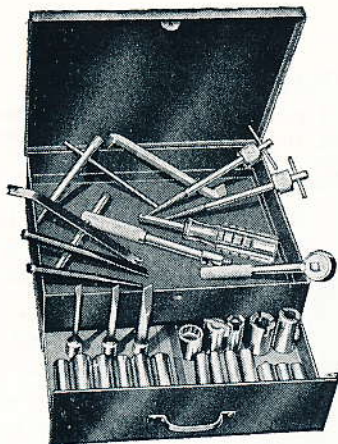
Hand Wire Brush



Wire Brush with Screw Eye attached. High grade brush with long curved handle. Prevents injury to operator's hand. Just what you need for cleaning dirt, dust and other foreign matter from rims and wire wheels.

No. WB-10—Length 14"

C-75K Carburetor Set — 1/4" Service

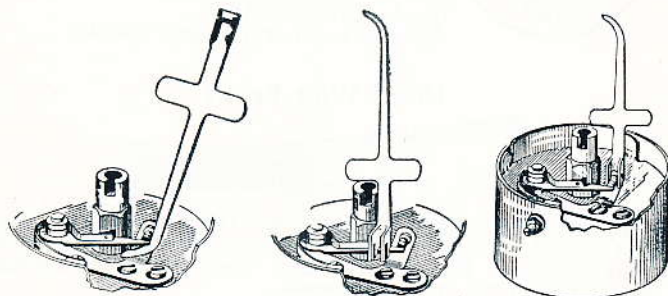


CFC2	Flat Chisel $\frac{1}{8}$ " x 4"	CS36	Jet Socket Wrench (Stromberg-Ford)	CW1	Economizer Valve Wrench
CP60	Carburetor Jet Puller (all except Stromberg)	CS38	Jet Socket Wrench (All except Ford)	CS50	Pronged Socket .For step-up piston)
CP80	Carburetor Jet Puller (Stromberg)	CS40	Main Discharge Jet S.D. Skt. (Stromberg)	CS52	Socket Screwdriver Bit ($\frac{1}{8}$ " Blade)
CRP2	Rivet Punch $\frac{1}{8}$ " x 4"	CS42	Piston Sleeve S.D. Socket (Stromberg) "D" Type	CS54	Socket Screwdriver Bit ($\frac{1}{4}$ " Blade)
CS20	$\frac{1}{8}$ " 12-point Shallow Socket	CS44	Pronged Socket, Prongs are $\frac{5}{8}$ " Deep, .041 Wide, $\frac{1}{4}$ " long, $\frac{1}{4}$ " O.D., Socket $2\frac{1}{2}$ " long.	CS56	Socket Screwdriver Bit ($\frac{3}{8}$ " Blade)
CM6L	$\frac{3}{8}$ " 6-point Deep Socket	CS46	Pronged Socket, Prongs are $\frac{1}{8}$ " Deep, .052 Wide, $\frac{1}{8}$ " long, $\frac{3}{8}$ " O.D., Socket $1\frac{1}{2}$ " long	CS58	Ring Insertor and bending tool socket
CM7L	$\frac{1}{8}$ " 6-point Deep Socket	CS48	Pronged Socket, Prongs are $\frac{1}{16}$ " Deep, .052 Wide, $\frac{1}{4}$ " long, $\frac{1}{2}$ " O.D., Socket $1\frac{1}{2}$ " long	CS60	Ball retaining ring insertor
CM13L	$\frac{1}{2}$ " 6-point Deep Socket	C75K	Set as illustrated including box	CW1	Main Vent Tool Remover and Insertor (Carter)
CM11L	$\frac{1}{2}$ " 6-point Deep Socket				
CM9L	$\frac{3}{8}$ " 6-point Deep Socket (By-Pass Jet — SF Type)				
CM10L	$\frac{1}{8}$ " 6-point Deep Socket				
CM15L	Check Valve Socket $\frac{1}{8}$ " Hex. (Stromberg) 6-point				
C75B	Metal Box Only				

Contact Point Aligner

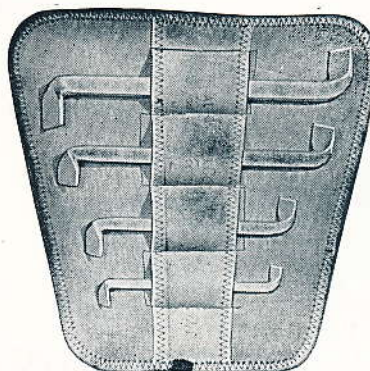
This tool is designed to fit and move all stationary points in all directions for correct point alignment.

Slots in one end can be applied to high speed contact arms. Opposite end of tool is lever designed so that stationary point can be moved in a lateral direction.



No. PA-40

Offset Screw Drivers



A set of high quality Offset Screw Drivers of proven design. Plated.

No.	Stock	Length
OD-1	3/16"	4"
OD-2	1/4"	4-1/2"
OD-3	5/16"	5-1/2"
OD-4	3/8"	6-1/2"

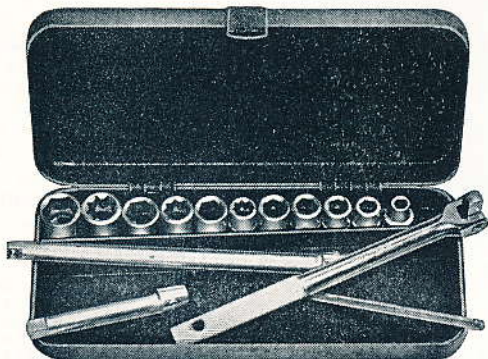
No. ODS Kit Complete

"Jacob's" Chucks & Keys

No.	Thread Size	
1B — Chuck	$\frac{3}{8}$ -24	D3K — Jacobs #3 Chuck Key
7B — Chuck	$\frac{3}{8}$ -24	D7K — Jacobs #7 Chuck Key
33B — Chuck	$\frac{1}{2}$ -20	D40K — Jacobs #1 Chuck Key
		D55K — Jacobs #32 Chuck Key



Midget Socket Set 1/4" Square Drive — Regular



This set contains fifteen pieces of 1/4" square drive socket wrenches. For close adjustments of small nuts and bolts in those places which are hard to reach, these fine tools will prove invaluable. The Reversible Ratchet is not included with the set but may be ordered separately. Set packed in metal case and contains one each of the following:

No.	Description	No.	Description
M- 1	1/4" Opening—8-pt.	ME- 3	3" Extension
M- 2	5/16" Opening—8-pt.	ME- 6	6" Extension
M- 3	3/8" Opening—8-pt.	MF- 5	Flex Handle
M- 4	3/16" Opening—6-pt.	MF-5B	Flex Handle Cross Bar
M- 5	1/4" Opening—6-pt.	MS-100B	Box only
M- 6	9/32" Opening—6-pt.	MR- 5	Reversible Ratchet only
M- 7	5/16" Opening—6-pt.	(Ratchet not included in set —order separately)	
M- 8	11/32" Opening—6-pt.		
M- 9	3/8" Opening—6-pt.		
M-10	7/16" Opening—6-pt.		
M-11	1/2" Opening—6-pt.		

SET No. MS-100

Midget Socket Set 1/4" Square Drive — Long



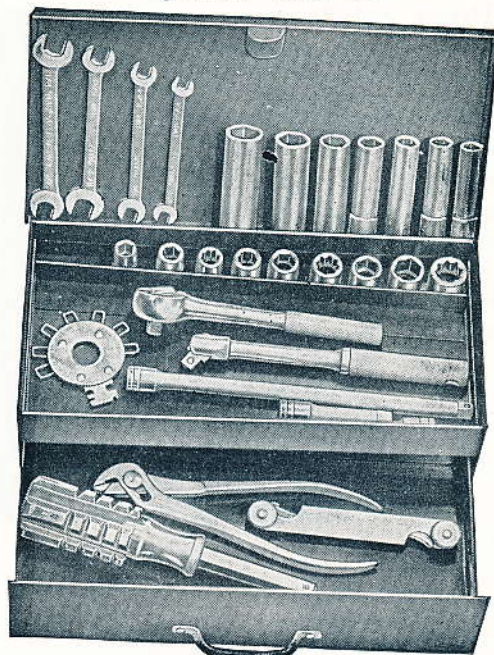
A much needed socket set for small work requiring this added length. Thin straight wall for close working space with required strength for regular service.

No.	Description	
M- 5L	1/4" Opening	—2" length—6-pt.
M- 6L	9/32" Opening	—2" length—6-pt.
M- 7L	5/16" Opening	—2" length—6-pt.
M- 8L	11/32" Opening	—2" length—6-pt.
M- 9L	3/8" Opening	—2" length—6-pt.
M-10L	7/16" Opening	—2" length—6-pt.
M-11L	1/2" Opening	—2" length—6-pt.

SET No. MS-100L — One Each Above in Box

M-13L	13/32" Opening	—2" length—6-pt.
M-15L	15/32" Opening	—2" length—6-pt.

Ignition Tool Set



A complete and compact set of small ignition tools, placed in our MB-1 box.

This set consists of the following tools:
Nine Standard 1/4" Drive sockets, size 1/4" thru 1/2". Seven 2" deep, 1/4" Drive sockets, size 1/4" thru 1/2", plus the following numbers.

No.	Description	No.	Description
MR-5	Midget Ratchet	FG-18	Spark Plug Gauge
MF-5	Flex Handle	FG-7	Ignition Gauge
ME-6	6" Extension	IW2	Ignition Wrench
ME-3	2" Extension	IW4	Ignition Wrench
MF-4	4" Flexible Extension	IW6	Ignition Wrench
P3	Ignition Plier	IW8	Ignition Wrench
MS-2	Spinner Handle		
No. IT4S			

1/4" Drive Spinner Handle



This is a tool that all mechanics require in their work. It enables them to do fast work with 1/4" sockets. Has Mac plastic handle. Can be used in small spaces as the overall length is only 5".

No. MS-2

Flexible Drivers



With these drivers, nuts and screws can be removed or installed in the most unreachable places.

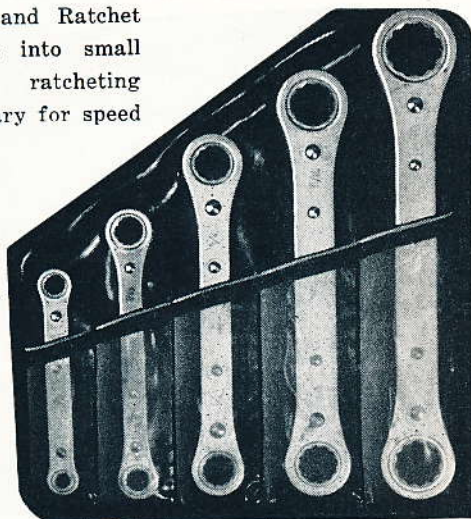
No.	Description
MF-6	Flexible Male Driver 1/4"
MF-4	Flexible Male and Female Extension



Ratchet Box Wrench Set

A Box Wrench and Ratchet combined to get into small space where a ratcheting wrench is necessary for speed and convenience and many general requirements for this type wrench.

Sold individually and in sets.



No.		No.	
RBW-5	1/4" x 5/16"	RBW-20	5/8" x 11/16"
RBW-10	3/8" x 7/16"	RBW-25	3/4" x 7/8"
RBW-15	1/2" x 9/16"	RBW-50S	Set complete in Kit

Scratch Awl



This Scratch Awl is not a 10c item, but a Quality Tool. The blade extends completely through the handle. Highly ground and polished. Used for Tire Work and many miscellaneous uses. Priced right for the DeLuxe Awl.

No. SA-800

Hollow-Head Set Screw Wrenches



Individual Wrenches

No.	Size	hex.
AW-050	.050	
AW-116	1/16"	
AW-564	5/64"	
AW-332	3/32"	
AW-18	1/8"	
AW-532	5/32"	
AW-316	3/16"	
AW-732	7/32"	
AW-14L	1/4"	

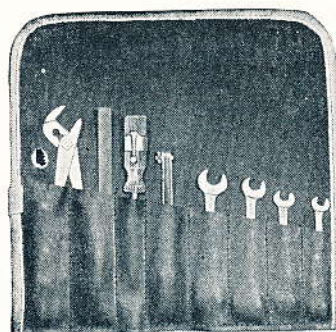
No. KAW—Hollow Head Set Screw Wrench Set (nine wrenches in all.)

Following large sizes available:

No.		No.	
AW-516	5/16" hex.	AW-716	7/16" hex.
AW-38	3/8" hex.	AW-12	1/2" hex.
		AW-916	9/16" hex.

KAW-L All five above sizes in kit.

Ignition Wrench Set



Listed below are two Ignition Tool Kits. The KIWS Kit is our Special kit containing four Wrenches, File, Feeler Gauge, Plier and Neon Screw Driver. The KIW Kit contains a limited assortment consisting of the four Wrenches and Plier only. Both assortments put up in attractive and substantial Leatherette tool kit.

Set KIWS Consists of the following:

No.	
IW-2	Wrench
IW-4	Wrench
IW-6	Wrench
IW-8	Wrench
P-3	Ignition Plier

Opening Size
13/64" x 7/32"
1/4" x 15/64"
9/32" x 11/32"
5/16" x 3/8"

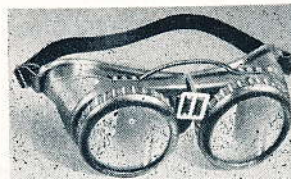
Set KIWS Consists of the following:

No.	
IW-2	Wrench
IW-4	Wrench
IW-6	Wrench
IW-8	Wrench
PF-5	Steel Point File
FG-15	Ignition Feeler Gauge
P-3	Ignition Plier
ST-2	Ignition Neon Screw Driver

Opening Size
13/64" x 7/32"
1/4" x 15/64"
9/32" x 11/32"
5/16" x 3/8"

The above sets service completely the Autolite, Bosch, Delco Remy, Eisemann and General ignition systems.

Welding Goggles



These welding goggles are recommended for standardization and general use by welders, cutters, etc., who either do or do not wear corrective glasses. Crown brace bar allows adjustment to proper fit and one-hand raising or lowering. Eye cups are light weight plastic.

Exclusive ray-proof metal side shields protect eyes. Has covering both inside and outside over the regular No. 5 lenses, an acetate plastic cover, which resists impacts that might break the lenses and prevents the shattered glass from reaching the eye.

No. WG-1 Welding Goggles.

Pipe Wrenches



No.	Length	No.	Length
PW-6	6"	PW-14	14"
PW-8	8"	PW-18	18"
PW-10	10"	PW-24	24"

Movable jaws also stocked

Adjustable Wrenches (Not Replaceable)



No.	Length	No.	Length
AJ-4	4"	AJ-12	12"
AJ-6	6"	AJ-15	15"
AJ-8	8"	AJ-18	18"
AJ-10	10"	AJ-24	24"

Jaws, Rollers and Screws Stocked



Valve Grinder

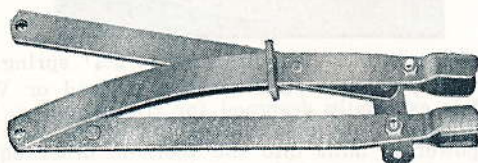


A smooth operating valve grinder with inside mechanism hardened to prevent wear. Triple oscillating type—makes $\frac{3}{4}$ turn and $\frac{1}{2}$ turn reverses—makes $\frac{1}{4}$ turn, then a full revolution. Equipped to handle all kinds of valves. Long stem $8\frac{1}{2}$ " over-all.

No.

- VG-12 Complete with extra parts
- VG-10 Vacuum Cup
- VG-11 Spring
- VG-13 Narrow Two-Prong Adapter
- VG-14 Wide Four-Prong Adapter
- VG-15 Screw Driver Type Adapter

"L"-Head Valve Spring Compressor



You can compress valve springs easily, safely and quickly—when you use this tool. Jaws are adjustable for practically all diameter valve springs from Model "A" to Dodge, and Studebaker. Has handle link with two positioning holes for adjusting for compression of different length springs. Sliding ring locks the tool with the valve spring compressed at any position. Greater speed and greater safety when using this tool.

No.

CF-18 Valve Spring Compressor.

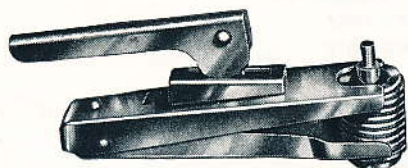
Clark-Feather Valve Key Replacer



Holds the keys firmly. This is the surest tool to return the locks to the valve stem. Replaces the small ribbed keys for Plymouth, Dodge, Chrysler, DeSoto, Oldsmobile, Pontiac, and 1949 Fords, 1948 Hudson 6. To load push center and forked bars to forward positions. Open a jaw and place key in jaw cup. Replaces the keys at any angle. Mechanics demand this replacer.

No. CF-7

Chevrolet Valve Spring Compressor

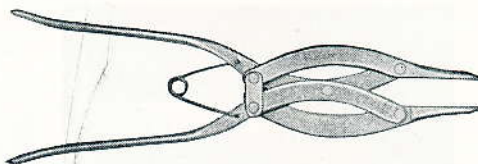


Designed to fit all Overhead Valve Spring Motors that are within range of the tool.

It's easy to compress valve springs when you use this tool for the job. It is designed with an adjusting wedge which has three positions for adjusting the opening and closing space between the jaws. A specially designed lever will automatically lock itself, so that it is not necessary to hold the handle while removing the keepers. The smooth, streamlined, round finished end prevents cutting, scratching, or injury to the hand when putting the jaws into the springs.

No. VC-30

Snap Ring Remover

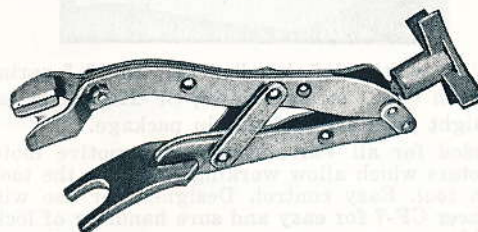


Jaws spread in a parallel plane. An entirely new design. The jaws actually lock the ring into the tool, with positive action and safe use. Prevents damage to transmission parts.

No.

P-35

Little Shorty Valve Lifter



Most highly recommended for all Chrysler, De Soto, Dodge, Plymouth, Oldsmobile, Pontiac, Packard, Studebaker, Kaiser, Fraser, International Harvester, 1948 Hudson Six, 1949 Ford Six, and all other "L" head motors with straight stemmed valves.

Lifts valves adequately, and still leaves enough room to replace locks with ease. Lift valves in tight places with The Little Shorty.

No.

CF-49

Length $8\frac{1}{2}$ "

Cadillac Valve Spring Compressor



Adapter for Motors with Removable Hydraulic Type Valve Tappet Lifters. Can be used with most "C" type valve spring compressors equipped with straight jaws. For all Cadillacs, 1937 Models and later.

No. CF-26

Valve Guide Cleaners



This Curly-head Valve Guide Cleaner adjustable $\frac{5}{16}$ " to $\frac{5}{8}$ " on Valve Guides for all size cars, trucks and tractors. Use one tool instead of many. Refills are obtainable. Life of coiled wire many times that of straight or crimped wire. Pay for themselves in very few operations.

VC-7

VC-7R—Refills only

Ford Valve Guide Driver

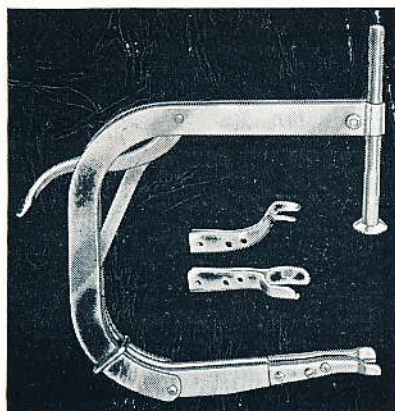


A very essential tool for all mechanics servicing Ford cars. Made of the best alloy steels and heat treated for greater strength and durability. Shipping weight 1 lb.

FG-339—For V-8 Models



"C" Type Valve Lifter



Height 10¼", width 9½", handles 1½" to 1¾" spring. Equipped with CF-21 straight jaws, CF-22B offset jaws and CF-23 straight jaws are included in package.

Recommended for all Valve-in-head automotive motors and L-Head motors which allow working room for the tool. Truly a one man tool. Easy control. Designed for use with Split Lock Replacer CF-7 for easy and sure handling of locks without a fumble.

No. CF-11 With Straight and Offset Jaws

Valve Grinders



A good tool which makes valve grinding easy. Has rubber suction cup which grips smooth top of valves. Wooden handle is so designed to give maximum grippage and long wear. Extra suction cups are available.

No.
VG-25 Hand Type Valve Grinder.
VG-25C Suction Cup.

Double End Combination Ford Valve Lifter (FOR 85 AND 60 H. P. FORD MOTORS)



This double-end valve spring lifter is designed to remove valve guide locks on both the Ford V-8, 85 and 60. The ends are forged from heavy bar steel and the entire tool is heat treated throughout. The length is 22½" overall, giving ample leverage to loosen any guide. Cadmium finish. Shipping weight, 2½ lbs.

No. VL-2 Length 22½"

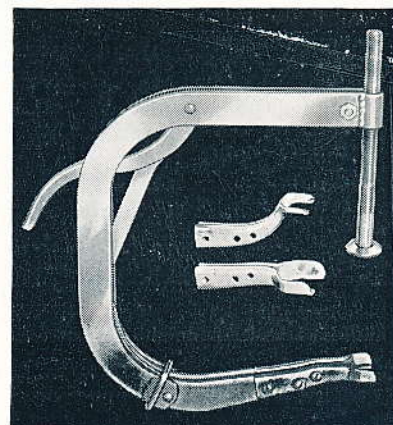
Valve Puller



Works on the slide hammer principle and will pull the tightest valve without damage to the valve head. Made of high grade, drop forged steel.

No. VP-205

"C" Type Valve Lifter



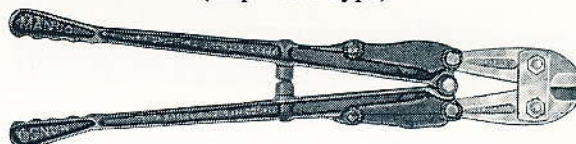
Height 10½", width 12", handles 1½" to 2¾" spring.

Recommended for automotive motors, L-Head or Valve-in-Head, and is especially designed for trucks, buses, tractors and heavy duty motors, also marine and Diesel engines. Full leverage power is built into the tool, no other equipment needed. Easy to operate and control.

Equipped with CF-21 straight jaws, CF-22-B offset jaws and CF-23 jaws are included in the package.

No.
CF-21 Straight Jaws—1½" to 1¾" capacity.
CF-22-B Offset Jaws—1½" to 1¾" capacity.
CF-23 Large Straight Jaws—1½" to 2¾" capacity.
CF-16—Truck Type—Width 12"—Height 10½".

Bolt Cutters (Improved Type)



Style No. BC 18S

STYLE S cutters are designed with stepped-up cutting power—Easier to operate—maintained tension—streamlined—no protruding bolts. Jaw drop forged of special tool steel. Not subject to replacement when used on case hardened material.

No.
BC 18S — 18" clipper cut
BC 24S — 24" clipper cut
BC 18J — Jaws only
BC 24J — Jaws only

Ford Valve Assembly "Nock-Out" Tool

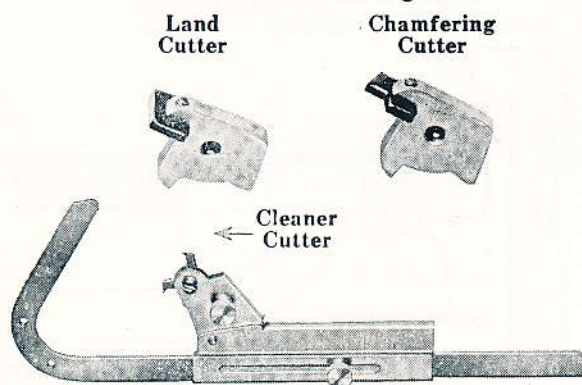


Removes the valve assembly in 10 seconds without damaging valve, spring or bushing. Jars or "shocks" the valve guide bushing loose by employing the sudden shock of the slide hammer principle . . . raising valve above valve seat where it can be lifted out by hand. Guaranteed against breakage.

Adaptable to Ford V-8, Mercury and Lincoln-Zephyr

No. FV-201

Piston Reconditioning Tool



All parts as illustrated above carried in stock. Merely change cutter for type of work necessary.

- No.
- RG-3 Ring Groove Tool with Cutter
 - RG-3B Cleaner Cutter
 - RG-3C Land Cutter
 - RG-3D Chamfering Cutter

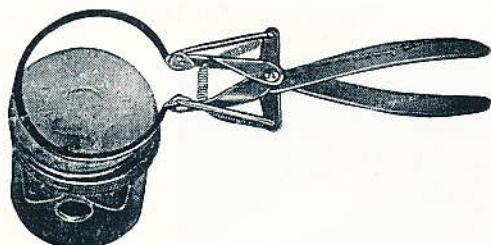
Ring Groove Tool



Cleans and deepens grooves to promote better ring action. Use STAPUT-RING LAND Tool to cut back piston lands and to chamfer or bevel lands — for that better ring job.

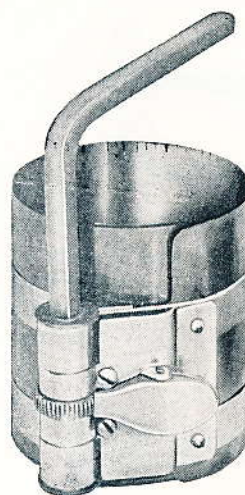
- | No. | Piston Size |
|-------|-------------------------------------|
| RG-1 | 2½" to 4½" Passenger Cars |
| RG-2 | 4½" to 6" Trucks |
| RG-5 | For Oldsmobile, Hudson and Cadillac |
| RG-7 | Land Reducing Cutter & Post |
| RG-11 | Cleaning & Deepening Cutter & Post |

Piston Ringer



Speedy, and for better ring jobs. Durable and easy to use and installs rings the modern way. Expertly engineered.
PR-00

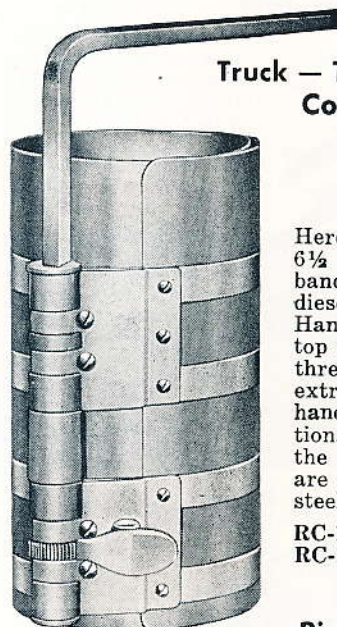
Piston Ring Compressor (Ratchet Type)



This Ratchet Type Compressor has self-locking heavy duty ratchet pawl of oil tempered spring steel. Winding spool broached ¼" square and ½" deep. Double friction brake adjustment in addition to ratchet. Beaded edge—compressor can't enter cylinder with piston.

- No.
- RC-50 — Passenger Car 3½" Band
 - RC-50T — Truck Size
 - RC-50B — Bands only
 - RC-50TB — Bands only

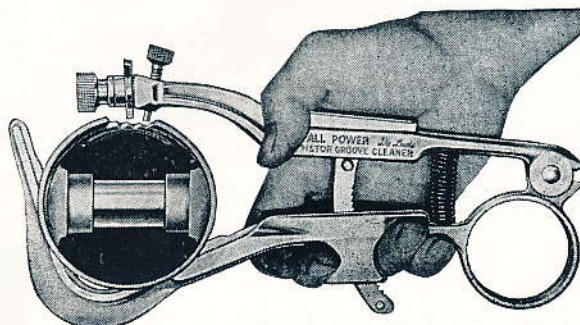
Truck — Tractor — Diesel Compressor



Here's the giant compressor with 6½ inch height and four tension bands. Takes up to 7 inch diameter diesel, truck and tractor motors. Handles jobs where the gap from top ring to skirt ring is more than three inches. You will find the extreme height and added bands handle these larger jobs to perfection. This compressor is well worth the higher initial cost. All bands are of highest grade Clock Spring steel. Lower edge is beaded.

- RC-150T
RC-150TB — Bands only

Ring Groove Tool

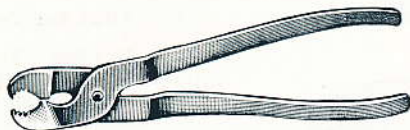


A new revolutionary principle in Ring Groove Cleaning Servicing 2½" To 5" Pistons

The locking principle is quickly executed and positive. "No back slipping."
Large ring for inserting fingers for turning tool.
The quick-setting, self aligning large cutter blade permits quick operation.

- No.
- RG-500 Services 3/32", 1/8", 5/32", 3/16", 1/4".
 - RG-500C Cutter Blade only.

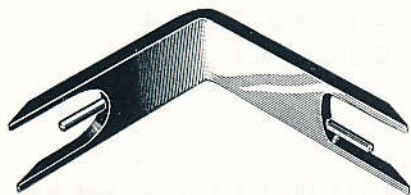
Lock Clip Removal Tool



Removes that stubborn, tricky little horseshoe spring clip that holds the inside door and window handles on all General Motors cars. Does in a few seconds a job that formerly took many minutes. Tool is inserted in handle slot, lock clip gripped lightly, then rocked to right—and lock clip rolls out easily.

No. P-1

Pin Driving Tool

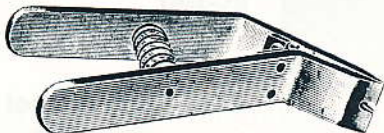


A new designed pin driving tool, built to remove pins from inside door and window handles on Fords, Chrysler, Dodge, DeSoto, Plymouth, Packard, Nash and on the 1950 Fords which have the smaller, off-center pins.

Prong ends are tapered for easy entrance between handle and escutcheon plates. The tool is bent at a right angle, which allows a flat surface to drive pins which are corroded. A few taps and the pins are out.

No. HT-5 Pin Driving Tool.

Door Trim Nail Puller



This tool pulls the General Motors door trim nails without breaking the head loose from the trim. Jaws are machined thin at end for easy insertion between door and trim. Strong spring keeps jaws closed tight until handles are squeezed. It's a real time saver.

No.

DT-117 Door Trim Nail Puller

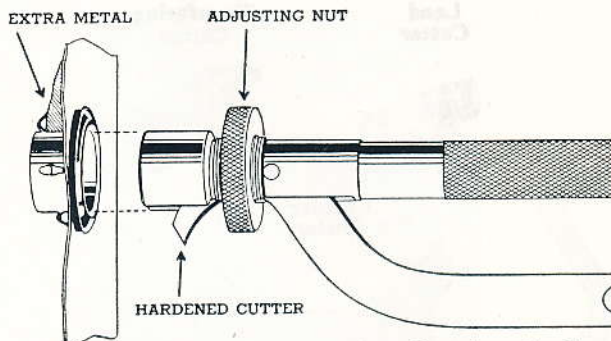
Scriber and Packing Hook



Scriber with Hardened Point—Other End designed for removing old packing from water pumps and replacing with new. Not guaranteed.

No. S-322

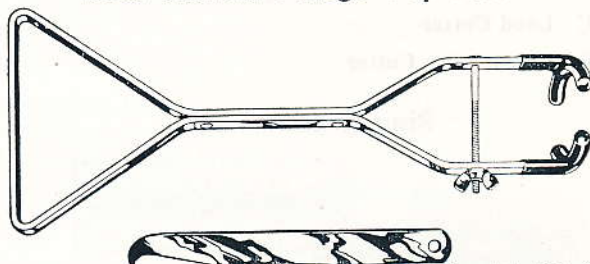
Door Handle Ferrule Tool



Door Handle Ferrule Tool attaches door handle ferrules rigidly. Adjustable for all General Motors Cars and Trucks, all years, all models, both wood and steel construction. Special adjusting nut permits tight installation of ferrule on repaired door panels and rear deck lids that have been built up unevenly by welding or with body solder.

No. HT-19

Door Handle Flange Depressor



Door handles and cranks come out in a flash with this Door Handle Flange Depressor. Adjustable for all flanges and handles. Enables removal of inside door handles easily without wear and tear on the car and on your nerves.

No. HT-21 Complete with pick.

Flexible Mechanical Finger

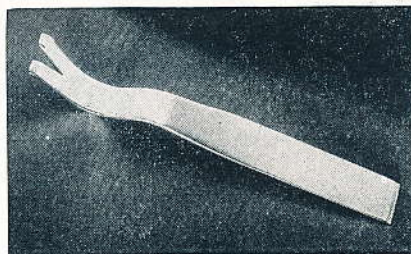


Extremely useful tool in limited working space. Used in "hard-to-get-at" spots, too small to insert the hand. Tool can be bent into many shapes such as a double "S" or at a double right angle and still retain full operation of the jaws.

No. MF-15—Fully flexible type—15" long with an 8" flexible section.

MF-12—Solid Type—12" reach.

Upholsterer's Tool



This tool is a handy one for the automobile body repairman. It is designed to use as a tack puller and very applicable for use in breaking away the upholstery and backboard from the inside of the body. Will last for years.

No. UT-2



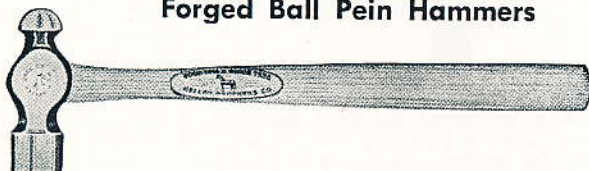
Plastic "MacLoid" Tip Hammers



Soft, but tough tips of plastic which are easily replaceable. Especially useful for fitting piston pins, wrist pins, gears, bearings, tapping valves, ignition and distributor work. Two popular sizes. Center is quality steel with first quality hickory handle, which is securely anchored.

No.	
PH-4	Round Face $\frac{3}{4}$ " Dia. 4-oz. 9" long.
PH-4A	Extra Tips for 4 oz.
PH-8	Round Face $1\frac{1}{4}$ " Dia. $\frac{1}{2}$ lb. $11\frac{3}{4}$ " long.
PH-8A	Extra Tips for $\frac{1}{2}$ lb.
PH-16	Round Face $1\frac{3}{8}$ " Dia. 1 lb. $11\frac{3}{4}$ " long.
PH-16A	Extra Tips for 1 lb.
PH-32	Round Face $1\frac{3}{4}$ " Dia. 2 lb. $13\frac{1}{2}$ " long.
PH-32A	Extra Tips for 2 lb.

Super Quality Forged Ball Pein Hammers



Machinists' Ball Pein Hammers of splendid workmanship, temper and style. Well balanced and will give excellent service.

No.	Weight Lbs.	Each Ozs.	No.	Weight Lbs.	Each Ozs.
BH-2	..	2	BH-24	1	8
BH-4	..	4	BH-32	2	..
BH-8	..	8	BH-40	2	8
BH-12	..	12	BH-48	3	..
BH-16	1	..			

Hammer Handles



No.		Length
H-2	Hammer Handle for 2 oz.	10"
H-4	Hammer Handle for $\frac{1}{4}$ lb.	10"
H-8	Hammer Handle for $\frac{1}{2}$ lb.	12"
H-12	Hammer Handle for $\frac{3}{4}$ lb.	13"
H-16	Hammer Handle for 1 lb.	14"
H24-32	Hammer Handle for $1\frac{1}{2}$ & 2 lbs.	15"
H40-48	Hammer Handle for $2\frac{1}{2}$ & 3 lbs.	16"
BT-273	Light design for Body Hammers	12"
BT-274	Regular design for Body Hammers	12"
BT-276	Light design for Body Hammers	20"



Red Devil "Grady" Wedges

The best wedges ever made. Drive one of these wedges on, and it will STAY wedged. Vibration cannot work it loose because it "barbs" into the wood. Will not chip or break under heavy blows.

No.	Number Per Box	Size Length - Width
HW2	3 Doz.	$3\frac{3}{4}$ "x5/16"
HW3	3 Doz.	$3\frac{3}{4}$ "x7/16"
HW4	3 Doz.	$7\frac{7}{8}$ "x3/8"
HW5	3 Doz.	$1\frac{1}{4}$ "x1/2"
HW10	2 Doz.	$1\frac{1}{4}$ "x3/4"
HW15	1 Doz.	$1\frac{1}{4}$ "x1-1/4"
HW18	$\frac{1}{2}$ Doz.	$1\frac{3}{4}$ "x1-7/16"

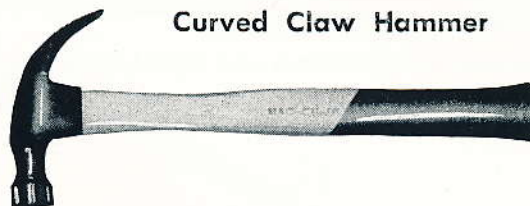
Cross Pein Hammer



Face and Pein polished. Oil Finished Body. Second Growth Selected Hickory Handle.

No.
OH-40— $2\frac{1}{2}$ lbs.
OH-48—3 lbs.
OH-64—4 lbs.

Curved Claw Hammer

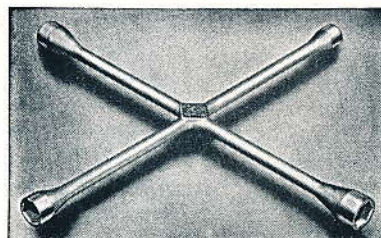


An all-purpose, long-service, sturdy, well-balanced hammer. Bell faced with hickory handle.

CH-16 Claw Hammer

Four Way Wheel Nut Wrench

(For Passenger Cars)



Extra long arms for wide fender clearance. Drop forged solid in one piece from high carbon steel and heat treated throughout. Forged with deep popular openings of two $\frac{3}{4}$ ", one $1\frac{1}{16}$ " and one $\frac{7}{8}$ ".

No.	Length
TT-50	20"

Offset Drain Plug Wrench (for male plugs)

H



A B C D E F G

A—Hudson, Essex, Graham, Studebaker, Pontiac, Willys
B—Ford
C—Buick, Studebaker, Cadillac, LaSalle, Oldsmobile
D—Oldsmobile, Pontiac, Chevrolet
E—Lincoln-Zephyr, Ford
F—Chrysler, Plymouth, DeSoto, Dodge, Graham
G—Lafayette, Essex, Nash
H—Cadillac, LaSalle, Buick
No. DP-2

Drain Plug Wrench



Ten-tools-in-one for all female plugs. Compact, easy to handle and designed to save time on oil changes. Lugs forged accurately to size. Heat treated and satin nicked.
No. DP-1



Straight Spoon Type Tire Iron



A strong and sturdy tire iron for passenger car use. Made of alloy steel.

No.	Length
TT-1	20"

Curved Spoon Type Tire Iron



A strong and sturdy tire iron with curved thin blade. Made of alloy steel.

No.	Length
TT-2	20"

Double-End General Purpose Tire Iron



A general purpose tire iron with spoon effect on one end and straight to a point on the other end. The most popular tire iron on the market.

No.	Length
TT-3	20"

Single-End All-Purpose Tire Iron



An old reliable tire iron for passenger car use. Made of alloy steel.

No.	Length
TT-4	20"

Lock Ring Remover



Especially designed for Firestone rims. An excellent lock ring tool. Made of alloy steel.

No.	Length
RT-1	20"

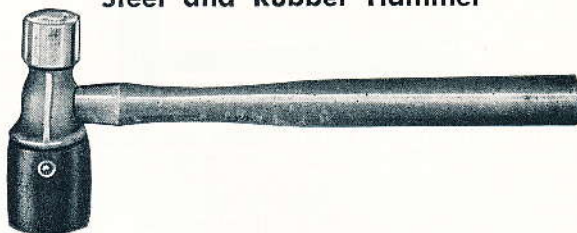
Heavy Duty Driving Iron



Designed with curved end. Contour of this tool assures a powerful even drive with a minimum of effort. For truck and bus use for loosening and removing frozen rusted truck beads. Will speed truck repair work.

No.	Length
TT-22	12"

Steel and Rubber Hammer



Two-way Combination Steel and Rubber Hammer for mounting tires. Replaceable rubber head. Will not mar rims. Also a hammer for general use.

No.	Length	Weight
TT-60	16"	2 1/2 Lbs.
TT-61—Rubber Heads only		

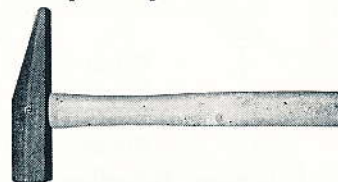
Tire Hammer



New and improved all-steel hammer. Long and thin for driving between tire and rim on all tires. Handle large and heavy, also wedge and screw fastened.

No.	Length	Weight
TT-55	14"	3 1/2 lbs.

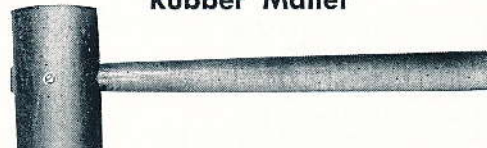
Heavy Duty Tire Hammer



This hammer has the same characteristics as the No. TT-55 hammer except extra heavy duty for heavy truck tire work.

No.	Length	Weight
TT-57	14"	5 lbs.

Rubber Mallet



Made of high grade live rubber, not scrap rubber. The head molded on the handle, which has ridges thus preventing the head from coming off. Screw anchored.

No.	Length	Weight
TT49	12"	12 oz.
TT52	15"	1 1/2 lbs.
TT53	15"	2 lbs.

Handles



Handles for TT-54 Steel and Rubber Hammers and TT-55 and TT-57 Tire Hammers.

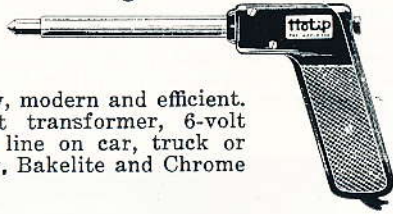
No.
TT-2H — For TT-55 and TT-57 Hammers
TT-3H — For TT-54 Hammers

Steel Wedges

No.
TTW—Steel Wedges for Above Hammers.
BTW—Steel Wedges for Body Hammers.



Hotip Soldering Gun



Heats in 5 seconds—new, modern and efficient. Operates from 110-volt transformer, 6-volt storage battery or hot line on car, truck or tractor. Beautiful Ebony, Bakelite and Chrome finish.

No.
SG-6 —Soldering Gun
SG-6R—Repair Kit Only
SG-6T—Transformer

Electric Soldering Irons



Super DeLuxe Electric Soldering Iron with the following features: Fintype Radiators guaranteeing cool handle — Copper Tip with special alloy steel—Chrome Plated, UL and CSA approved. 100-Watt.

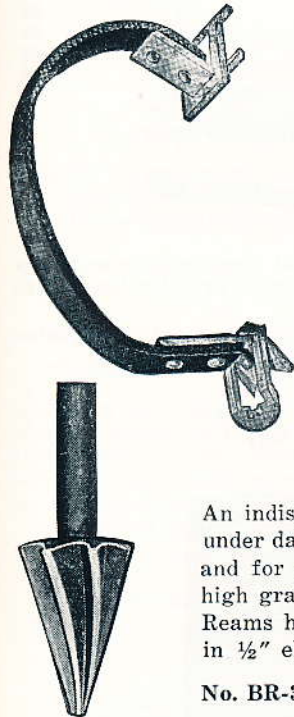
No.
SG-2 100-Watt
SG-2-R Heating Element for SG-2
SG-3 Heavy Duty 200-Watt
SG-4 Pistol Grip—Attach Direct 110 Current

Sure-Grip Battery Carrier

Long Style

Sure-Grip self-locking ends positively hold the heaviest battery without danger of slipping. The greater the weight the tighter they grip. EXTRA LONG to handle the new 20" batteries.

No.
BL-5—Short Type Cells assembled side by side
BL-10—Long Type Cells assembled end to end



Burring Reamer

An indispensable tool for heater hose holes under dash and seats, spotlight installations and for general use. A quality Reamer of high grade steel and treatment. $\frac{1}{2}$ " Shank. Reams hole from $\frac{1}{8}$ " to $1\frac{1}{4}$ ". Can be used in $\frac{1}{2}$ " electric drills.

No. BR-386

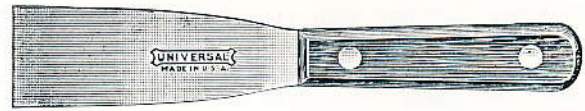
Motor Cleaning Brushes



These are handy, practical brushes for engine and chassis cleaning. Two types of brushes are available, one made of fibre bristles 3" long, with wide metal collar set in wood handle and one of nylon type $2\frac{1}{2}$ " long, with wide metal collar, set in twisted wire handle. Not Replaceable.

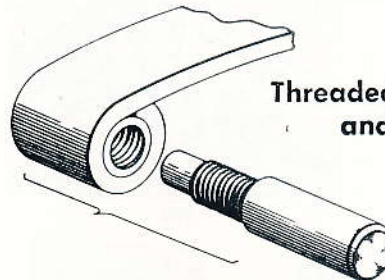
No.
GB-5 Nylon type $2\frac{1}{2}$ " long.
GB-12 Fibre type 3" long.

Putty Knife



Imported Rosewood Handle, with Duralumin interlocking rivets. Half elastic, $1\frac{3}{8}$ " x $3\frac{3}{4}$ " carbon steel blade.

No. PK-1 NOT REPLACEABLE



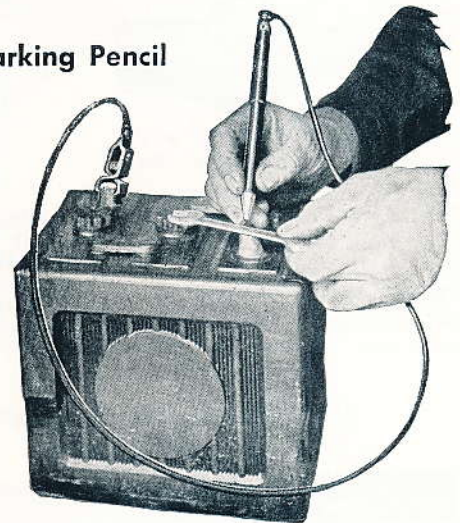
Threaded Bushing Removing and Replacing Tool

Especially designed for removing the threaded bushing from the spring eye and horn on 1936-1947 Chevrolet passenger and commercial cars, and trucks. Also for removing the threaded bushing from General Motors cars. Also allows speedy installation of new bushings.

BR-6

Electric Marking Pencil

For marking names on Tools, etc. Writes like pencil. Can be used with Battery or Transformer. 6-Volts. 12 Pencils $3\frac{1}{2}$ lbs.
No. EP-9

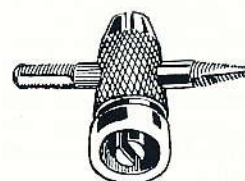


Combination Valve Fishing Tool With 4-In-1 Valve Tool



Combines two indispensable tools used by everyone in mounting a tire. The cap of the tool screwed on to the valve is a safe and easy way to bring the tube in place when the tire is mounted. Complete tool nickel plated.
No. T-106

E-Z Out Valve Tool



A DeLuxe 4-in-1 tool for removing and replacing tire valve cores, rethreading inside and outside of valve stem.

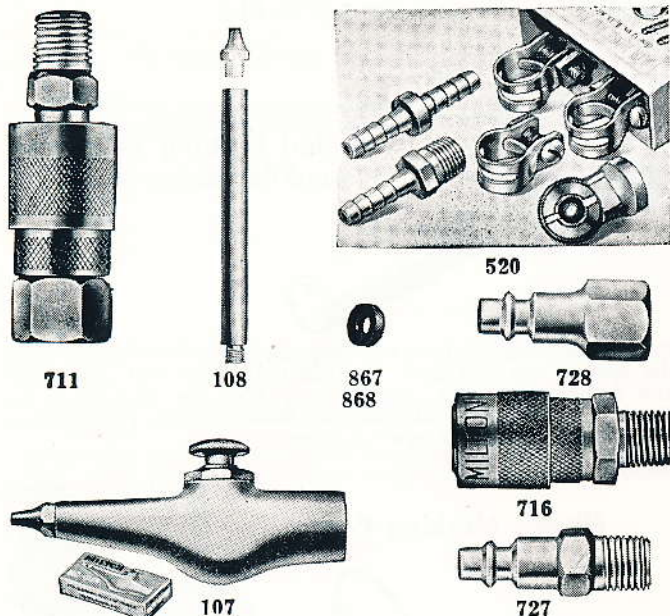
The core remover has convenient guide which slips over the valve stem. E-Z out for backing out valve insides when shoulders are broken off.

No. T-105



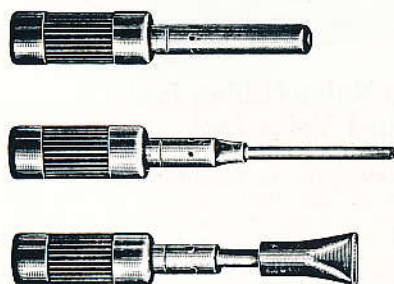
Airline Tools and Fittings

Kwik-Change Couplers with both Male and Female Plug connections save valuable time. These are used with all air operated equipment such as Blo-Guns, Paint Sprayers, Air Hammers, etc. These items listed below are a necessity for garages and service stations.



No.		No.	
711	Kwik Coupler and Plug	108	4-in. Blo-Gun Extension
716	Male Coupler Body	520	Air Hose Repair Kit
727	Male Plug Only	867	Neoprene Washer for Air Lines
728	Female Plug Only	868	Neoprene Washer for Blo-Gun
107	Blo-Gun		

Welding Tip Sets



These Welding Tips are available individually or in a set of three. Packed in a handy leatherette kit. The kit is comprised of a Leading Tip, a Fine Radiator Solder Tip and a wide flanged Paint Burning Tip. Each Tip is equipped with its rubber base attachment. These are of first quality throughout, built to stand a lot of punishment.

No.

- LST-1—Leading Tip and Rubber Attachment in kit.
- LST-2—Radiator Solder Tip and Attachment in kit.
- LST-3—Paint Burning Tip and Attachment in kit.
- LSTK—Complete Set of Three types in kit.

These Welding Tips are available individually or in a set of three. Packed in a handy leatherette kit. The kit is comprised of a Leading Tip, a Fine Radiator Solder Tip and a wide flanged Paint Burning Tip. Each Tip is equipped with its rubber base attachment. These are of first quality throughout, built to stand a lot of punishment.

Abrasive Grinding Wheels

These wheels are made from natural aluminous oxide abrasive... fully vitrified—giving you the finest, best cutting wheels you ever used. All 60 Grit wheels are grade "M" for fine general purpose work. All 36 Grit wheels are grade "O" which is a harder grade and better for heavier and rougher grinding.



No.	Diameter	Width	Arbor	Grit
GW8	6"	1/2"	1/2"	60
GW10	6"	1/2"	1/2"	36
GW12	6"	3/4"	1/2"	60
GW14	6"	3/4"	1/2"	36

Flexible Wire Carbon Scraper

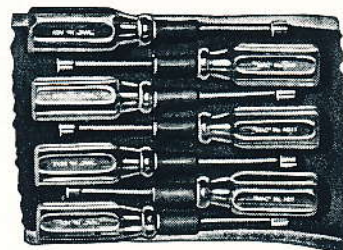


This Scraper has a claw-like end that scrapes clean and deep. Being flexible, it goes into all curves of cylinder heads. You get it all with this scraper.

The springs are made strong with oil-tempered spring wire. They fit the curve of every piston head without fail.

No. CS-10—10" Long, 1" Wide.

Nut Driver Set



No.

ND 6—	3/16"	Opening - Hex
ND 7—	7/32"	" "
ND 8—	1/4"	" "
ND 9—	9/32"	" "
ND10—	5/16"	" "
ND11—	11/32"	" "
ND12—	3/8"	" "
ND14—	7/16"	" "
ND16—	1/2"	" "

These new Nut Drivers are top quality. Handles are made of special plastic which are resistant to shock. Sockets are precision formed, free of burns, and fit nuts snugly, and deep enough to handle two nuts. Depth of shaft hole 1 1/4".

ND-7S Set complete in Kit. Consisting of first seven sizes. Sold individually and in Kits.



Hydraulic Brake Clip

Universal. Covers all passenger and commercial cars. Instantly adjusted to any size brake cylinder, within its range.

Squeeze the clip and let it come back into the Cylinder, before removing shoe. Tension applied by the clip will keep the pistons in position, preventing oil leakage and displacement of parts. Time and effort will be saved by clipping one on each cylinder until ready for reassembly. Leave each together.

Made of 3/16" hardened spring steel wire.

No. BC-5



Brake Clevis Pin Tool



A tool especially designed for removing Clevis Pins on emergency brakes. This tool has many other advantages in addition to removing door hinge pins.

Order No.
CP-5

Pin Size
5/16"

Length Tool
10"

Pitman Arm Remover



Ideal for all passenger cars and small trucks where Pitman arm extends through frame.

No. PR-40—Pitman Arm Remover

Mac Tie Rod Spreader

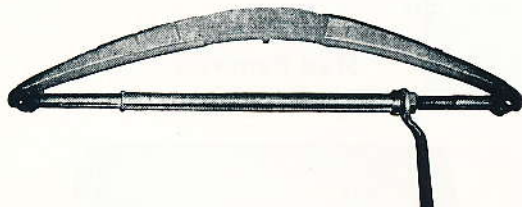


Works on the wedge principle and will spread the toughest clamp. Opening is forged 11/16" wide to straddle bolts on Ford, Chevrolet, etc. Heat treated and guaranteed.

No. TS-38—Tie Rod Spreader

No. TS-39—Shock Link Spreader with 9/16" opening. Same design as No. TS-38.

New Improved Spring Spreader



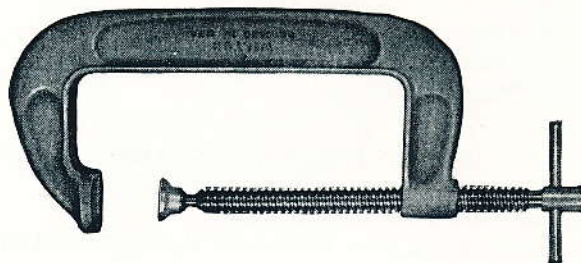
For Ford, Mercury and Lincoln Springs

Designed to give mechanic a complete, safe, and efficient unit for spreading both front and rear springs on Ford, Mercury and Lincoln automobiles. The 10" offset handle permits working in limited space. Priced very low for this type of equipment.

No. SS-25—Spreader only

No. SS-25W—Wrench only

C-CLAMPS Malleable Alloy



Catalog
No.

Capacity

Weight
Lbs.

C-502

0" - 2"

1

C-503

0" - 3"

2

C-504

0" - 4"

2 3/4

C-506

0" - 6"

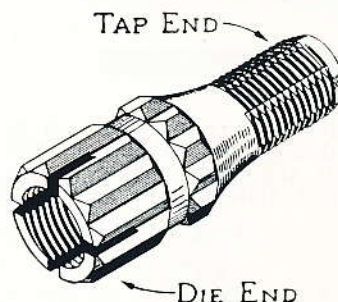
3 1/2

C-508

2" - 8"

6

Tap and Die Chasers



Tap and Die Chaser for correcting Inverted Flared Fittings that have been cross threaded. Put up one set of three (carbon steel) Chasers to box.

The external twelve points will enable you to use these chasers by hand or with any socket wrench.

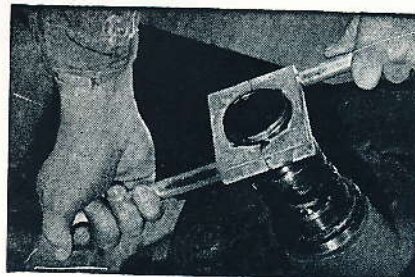
No. TDC-5 Consists of one set of

1 — 3/8" — 24 P.I. Thread for 3/16" tube size

1 — 7/16" — 24 P.I. Thread for 1/4" tube size

1 — 1/2" — 20 P.I. Thread for 5/16" tube size

Ford-Chevrolet-G.M.C. Trucks Axle Housing Dies



Fleet owners and garages will find this tool a real time-saver, which may pay its cost on one single job. Damage to housing threads is often unavoidable when removing the wheels from trucks. The assembly operation can be completed easily and quickly by rechasing the threads with this handy tool.

RD- 5—Chevrolet Truck 2 1/8" - 16

RD-10—Ford Truck, Federal Truck..... 2 1/4" - 16

RD-15—International, G.M.C., Diamond T, and
Federal 2 1/4" - 12

Screw Holding Screw Drivers



REALLY HOLDS THE SCREW

Shockproof-Unbreakable Plastic Handle.
Pentagonal Button Prevents Rolling.
High Carbon Spring Steel Blade with Hollow Ground Bit.
Strong "Rust-Resisting" Steel Tubing.

No.	
SH-2	2 in. x 3/16 in. Shank .028 in. Bit
SH-3	4 in. x 3/16 in. Shank .028 in. Bit
SH-4	4 in. x 1/4 in. Shank .035 in. Bit
SH-5	6 in. x 3/16 in. Shank .028 in. Bit
SH-6	6 in. x 1/4 in. Shank .035 in. Bit
SH-8	8 in. x 1/4 in. Shank .035 in. Bit

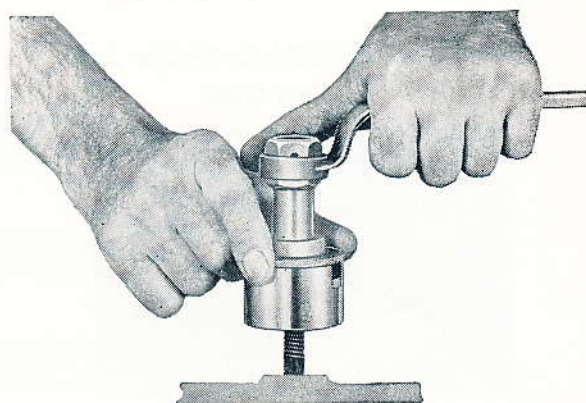
Screw Starters



For starting screws — a standard driver to be used to tighten. End of tool chucks tightly into screw slot. Will withstand an eight pound pull and automatically release when pressure becomes too great. Duraluminum handles.

No.		Length	Bit Size
SS-2	Screw Starter	2 1/2"	1/4"
SS-5	Screw Starter	5 1/4"	1/4"
SS-10	Screw Starter	9 1/4"	1/4"

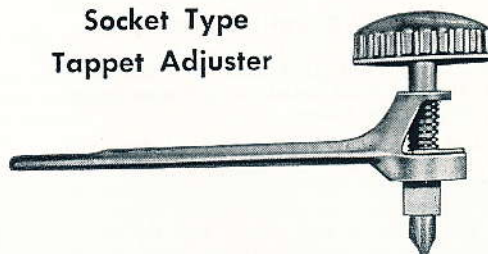
Clark-Feather Stud Wrench



A quality, self fitting stud wrench with a capacity of 1/4" through 1/2". Fits and grabs anything in between these sizes regardless of wear or irregularities. Use with it either internal 1/2" square or external 1" hex drive. Releases stud with easy rotation of knurled collar. Replacement jaws easily installed.

No.	
SW-1	Stud Wrench — 1/4" to 1/2" capacity
SW-2	Stud Wrench — 17/32" to 3/4" capacity

Socket Type Tappet Adjuster



A revolutionary new type of Tappet Adjuster. Light in weight but sturdy in construction. Regular 1/2" sockets are used with this adjuster. It has a two-position adjustment on the screw shank to allow longer reach where needed. Just another "Mac" time-saver for the professional mechanic.

No. TA-5—Tappet Adjuster

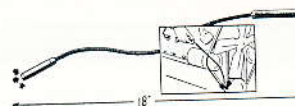
Tappet Adjusting Tool For Overhead Valves



Incl. Chevrolet, Buick and Nash. Is designed to allow full view by user at all times. Both wrench and screw driver are hardened for long wear.

No. TA-4

Flex Maggie Pick-Up Tool



A strong Alnico V magnet on a slender flexible shaft. Handle and magnetic shield highly polished, shaft cadmium plated. No mechanic should be without one for easily retrieving small parts from inaccessible spots, such as crankcase, transmissions, differential, etc.

No. MPF-1 Flex Maggie Pick-Up Tool

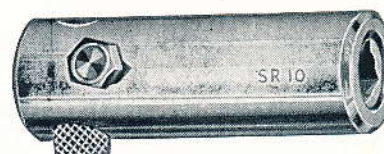
Magnetic Pick-Up Tool



A sensational new magnetic finder and pick-up tool—picks up fallen nuts, bolts, screws, washers, etc., out of the tough spots to get at. Opens to 2 feet, powerful magnet guaranteed 5 years.

No.
MP-4—Junior size
MP-5—Senior size

Stud Remover New Detachable Wedge Type



Latest development in stud pullers. Services 1/4" to 5/8" studs. Turns in a smaller circle and will work much closer to obstructions. Set-screw in side of puller prevents loss by keeping wedges in body when not in use.

No. SR-10 Complete with two wedges



Spark-Testing Screw Drivers (Not Replaceable)

Brilliant Flash, Plug O.K. Stringy Flash, Plug Partly Fouled.
No Flash, Dead Plug.

Red Pyrolin Handle Shock Proof



No.
ST-2 —Length 4½"
ST-2T—Tube Only

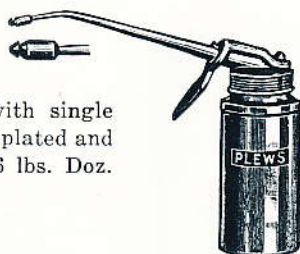
Pyrolin Handle Shock Proof



No.
ST-4 —Length 7"
ST-4T—Tube Only

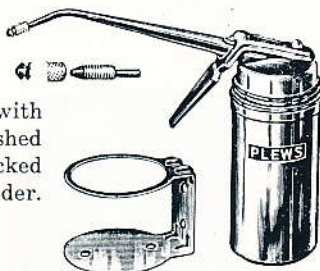
Plews Pistol Oilers

Capacity 6 oz. Spout 6" long with single cone tipped vent. Finish is copper-plated and copper lacquered. Shipping Wt. 6 lbs. Doz. No. OC-05



Capacity 6 oz. Spout 6" long with twin-tipped vent. Finish is polished nickel or equal. Each oiler packed in a display carton with holder. Pressed steel cap.

No. OC-11



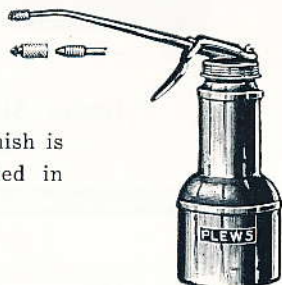
These handy bench oilers are suitable for lubrication of all types of factory machines. Model No. 25 is especially well adapted for service station use. 7/8 Pint, 6" spout, twin-tipped Vent.

No. OC-25

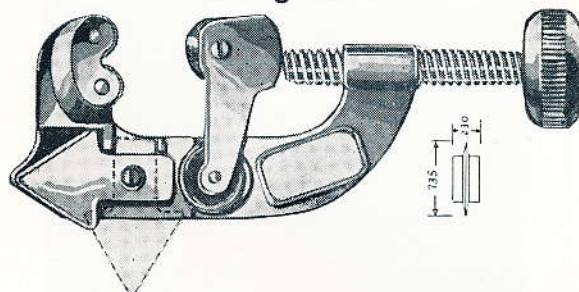


Capacity 1 pint, spout 6" long. Finish is polished nickel. Individually packed in attractive cartons.

No. OC-1125



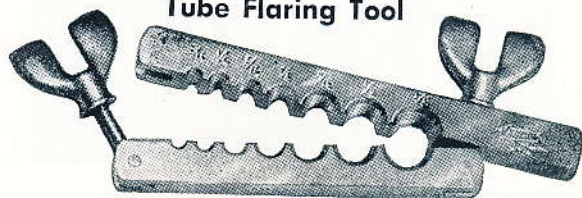
Tubing Cutter



This new cutter is designed to cut tubing from ¼" to 1". Has rollers and is built with slide-reamer. Is fully Chrome plated. Cutting blade is connected to spring and is self-adjusting with right or left turn of the large easy-grip handle. Attractive, and a quality tool all the way through.

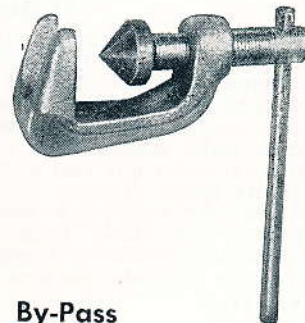
No.
TC-4
TC 4-C — Cutter Blade only

Tube Flaring Tool



Will flare brass, copper or aluminum tubing to make S.A.E. flared joints without splitting. The gripping jaws are knurled. This prevents tube slippage during flaring operation. Takes tube sizes 1/8", 3/16", 1/4", 5/16", 3/8", 7/16" and 1/2" O.D. All holes marked for size.

No. FT-9

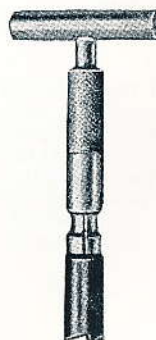


By-Pass Plunger, Remover & Reamer For Chrysler Cars

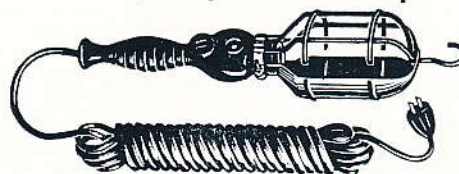
To correct and maintain better oil pressure, remove by-pass plunger, clean and replace plunger seat. Permits plunger to seat properly, stopping unnecessary leakage at by-pass.

No.

PR-24A—For 1933 thru 1945 model cars
PR-25A—For 1946 and later models
(Extra seat refacers available)



Heavy Duty Trouble Lamp



Complete with heavy cord and reflector guard, switch and single outlet. Not replaceable.

No.
DC-25—With 25' cord
DC-50—With 50' cord

DCS—Cages only



Motor Tune-Up Set



No. TK-5—Tune-up Kit Complete

Vacuum Gauge

Vacuum Gauge shown above is a necessary instrument in checking motors. The dial is calibrated and marked in different colors to indicate the trouble. The gauge is also used in checking faulty fuel pump pressure. The vacuum and fuel pump gauge detects engine trouble from leaky manifolds to weak valve springs. Normal motor and fuel pump divisions are outlined in green. Faulty motor divisions are outlined in red. The red section is further subdivided showing "Leaky Manifold," "Heat Riser" and "Late Ignition or Carburetor Adjustment." Adjustable restriction screw controls the indicator vibrations, assuring accurate readings. Hose included with tool.

No. VG-5

Compression Tester

This is the new style compression tester, with the "SHORT STEM," designed to test the motor plug hole in the back, where a minimum of working space is allowed. Registers from zero to 200 pounds compression per square inch and holds the highest compression reading until release button returns the reading to zero. Gauge therefore can be removed from the spark plug hole for reading. Dial is calibrated into 5-pound divisions. Cone adapter not affected by grease or gasoline. For all spark plug holes.

No.

- CT-5 —Compression Tester Complete
- CT-5R—Rubber Tips Only
- CT-5C—Cores only for Compression Tester
- CT-5A—Adaptor for Ferguson & Ford Trucks & Tractors

Timing Light

Rugged case will take hard usage given this tool during work.

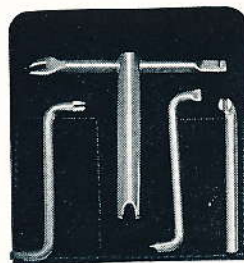
The lens construction lights up strong showing timing marks sharply, brilliant enough to spot the timing marks exactly, to get perfect tune-up job. Gives a wide range of brilliance for spark plug testing.

No. TL-5 —Timing Light Complete

TL-5E—Elements Only

Sold as set complete in Metal Box or Individual Items.

No. TK-5B—Metal Box Only.



Tune-O-Kit

No.

- TU-119—Contact Aligning Tool
- TU-126—Voltage Regulator Tool
- TU-139—V-8 Distributor-Offset Driver
- TU-140—Ford Voltage Regulator Tool
- TU-160—Complete Set as shown

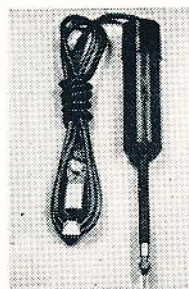
Electric Testing Tool

For Testing: Shorts or breaks in wiring. Radio circuits. Connections. Fuses—Bulbs. Armatures—Fields. Dead battery cells. Ignition Timing. Stuck Points. Ground circuits. Switches.

No. ET-100



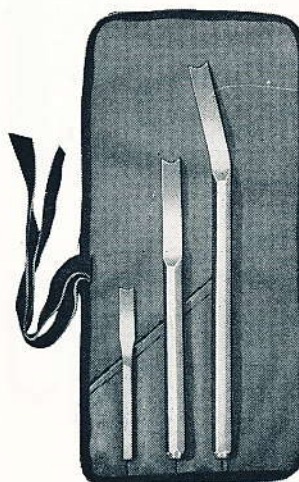
Jim Jam Test Light



The ideal tool for trouble shooting. Finds broken wires to lights, heaters, gauges, relays, generators, etc. Uses phonograph needle, which is replaceable.

Transparent red plastic body . . . contains standard 6-volt bulb, in spring holder, easily replaced.

No. ET-101—Jim Jam Tester



Bushing and Panel Cutting Set

No.

- CT-1 Small Bushing & Panel Cutter 1/4" x 4 1/2"
- CT-2 Medium Bushing & Panel Cutter 1/2" x 7 1/4"
- CT-3 Offset Bushing & Panel Cutter 1/2" x 10"

No. CT-3S—Set Complete

Ford Cylinder Sleeve & Shackle Bushing Remover



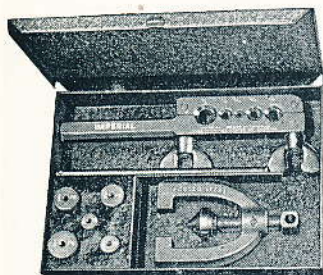
No.

CT-4 Ford Cylinder Sleeve & Shackle Bushing Remover—5/8" x 14"



Imperial Double-Flare Tool

(Set)



For:

Thin-Wall — Soft
Steel, Soft Copper
and Aluminum
Tubing

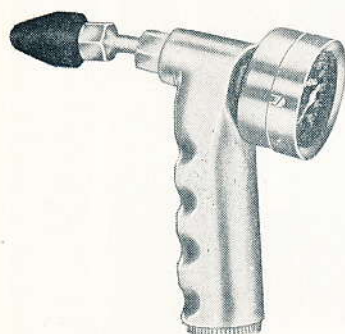
Provides a new, simple, speedy method of making accurate 45° double-flares on thin-wall, soft steel tubing for S.A.E. flare and inverted flare joints. Can be used for making single or double flares on soft copper or aluminum tubing. Double flares are an advantage when joints are reconnected frequently.

Complete set in metal box includes flaring bar, yoke, and 5 adapters.

For $\frac{3}{8}$ ", $\frac{1}{4}$ " $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{1}{2}$ " O.D. Tubing.

No. FT-93-FR—Double Flare Tool

"Pistol Grip" Compression Tester



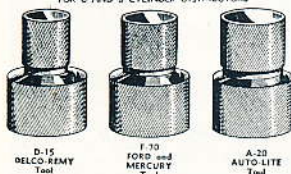
A new compact "Pistol Grip" design permits convenient testing of all modern engines, including back cylinder of 1949 Chevrolet. New universal rubber cone fitting is adaptable to all spark plug holes. Special check valve eliminates back pressure and holds reading on gauge until released by operator. Gauge indicates pressures from 0-200 pounds. Hollow handle contains two spare rubber cones and valves for quick replacement.

No. CT-10 Pistol Grip Compression Tester.

No. CT-10-L Pistol Grip 10" Reach — Long Stem.

Rubbing Block Surfacers

DANDY RUBBING BLOCK SURFACER
FOR 6 AND 8 CYLINDER DISTRIBUTORS

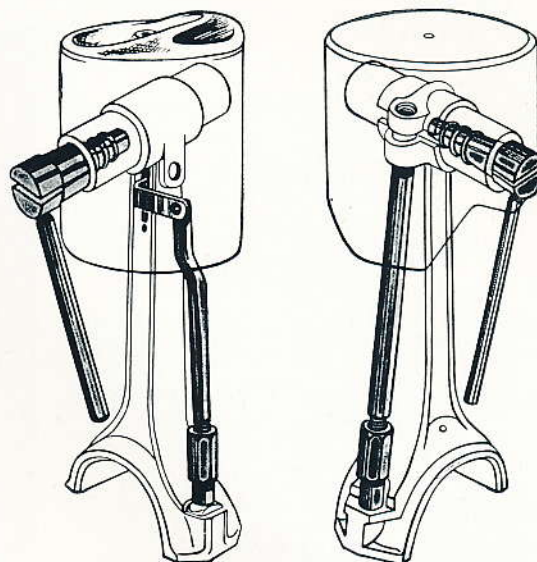


D-15 DELCO-REMY Tool
F-70 FORD and MERCURY Tool
A-20 AUTO-LITE Tool

No.
RS-15 Delco-Remy
RS-20 Auto-Lite
RS-70 Ford-Mercury

Designed to surface the breaker arm rubbing blocks to conform with the distributor cam. Reduces rubbing block wear and permits the breaker point setting and ignition timing to maintain their proper setting, thereby resulting in better engine performance, for a longer period of time. Services 6 or 8 cylinder distributor.

Piston Pin Extraction Set



A set of tools designed to accomplish the replacement of connecting rods, without removing the cylinder head.

All Work Is Done From The Bottom

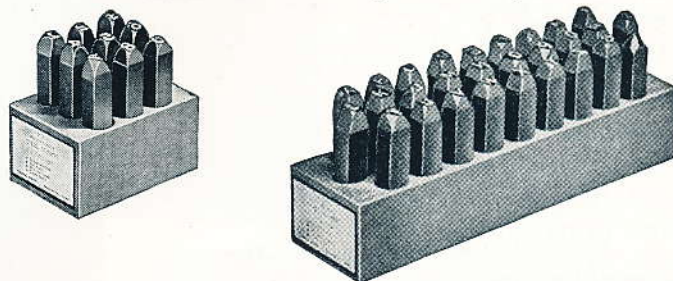
- Rod is removed through the crankcase.
- Saves wrist pin extraction time.
- Saves wrist pin replacement time.
- Saves motor re-assembly time.
- Saves ring breakage — piston is not removed
- Saves tappet adjustment time.

Set consists of:

No. PT-101-1 — Wrist Pin Wrench
No. PT-101-3 — Straight Jack (expands Chev. Rod Clamp)
No. PT-101-2 — Offset Angle Jack (expands slotted clamp on Buick, Willys. and Studebaker connecting rod)

No. PT-101 — Complete Set. — (Not Replaceable)

Steel Letter & Figure Stamps



These steel letter and figure stamps are sturdy, anti-mush-room hammer end. Clear deep impressions, high carbon steel, rust-proofed. Scientifically heat-treated. The shank will not bend, will not chip; they are designed to give years of service. They come packed in a handsome lacquered box. Letter sets consist of 28 pieces and figure sets consist of 9 pieces. Can be purchased in sets or singles.

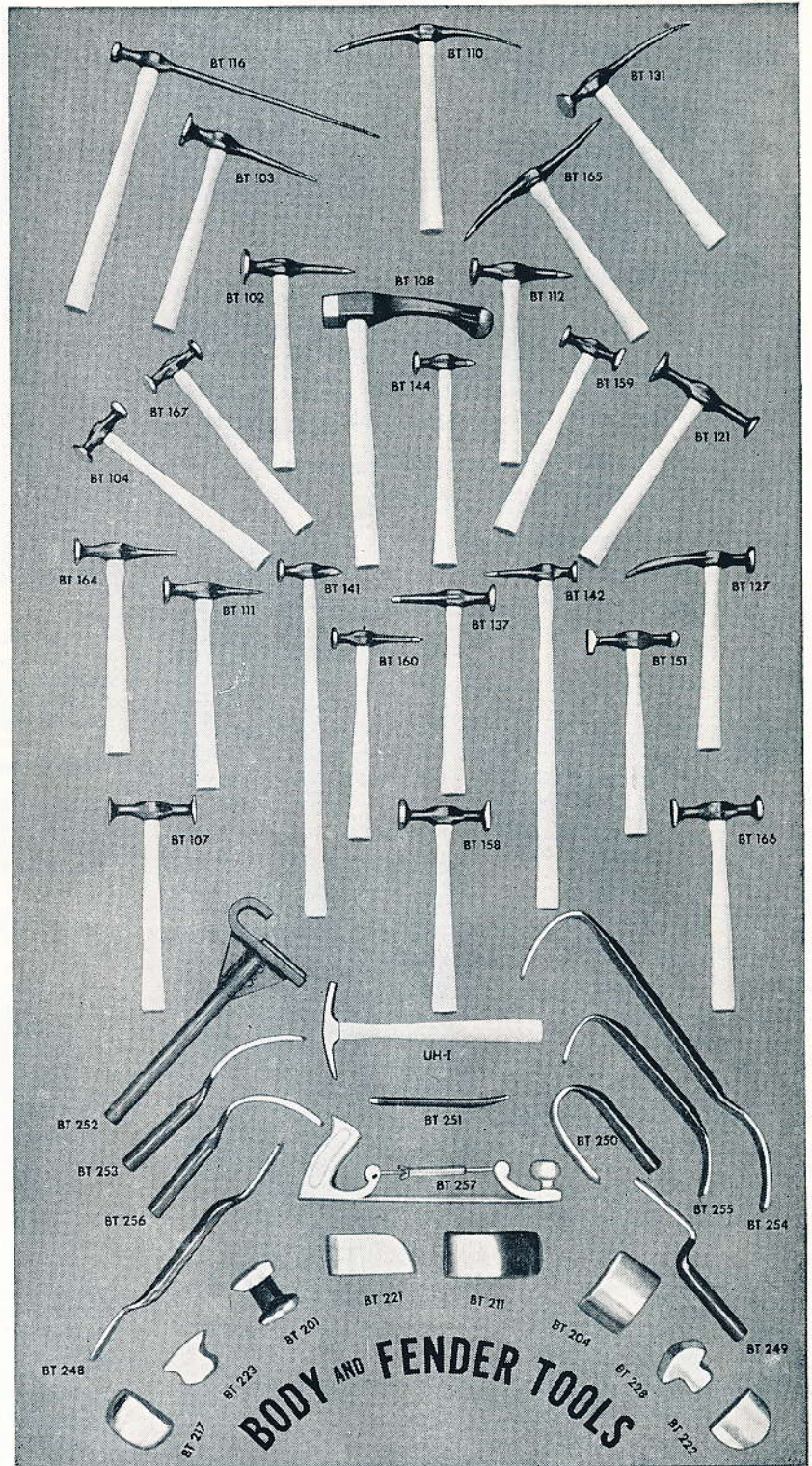
No.

LS-316 $\frac{3}{16}$ " Letter Set—28-Piece
LS-25 $\frac{1}{4}$ " Letter Set—28-Piece
FS-316 $\frac{3}{16}$ " Figure Set—9-Piece
FS-25 $\frac{1}{4}$ " Figure Set—9-Piece



Body and Fender Tools

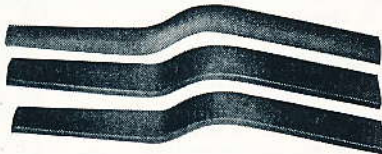
- BT102 **PICK HAMMER**
1 3/4" Dia. Flat Face; 3 3/4" Pick
- BT103 **PICK HAMMER**
1 3/4" Dia. Flat Face — 5 1/2" Pick
- BT104 **FLAT FACE HAMMER**
Flat Faces, Dia.: Sq. 7/8"; Rd. 1 3/8"
1 3/8" Clearance, Face to Handle
- BT107 **FLAT FACE HAMMER**
Flat Faces, Dia.: Sq. 1 1/2"; Rd. 1 3/8"
- BT108 **BUMPING HAMMER**
Wt. 3 1/2 lbs. "Neck" 6 3/4"
- BT110 **CURVED PICK & CHISEL**
Pick 4 3/4"; Chisel 4 3/4"
- BT111 **CROSS CHISEL HAMMER**
Cross Chisel, 3" long. Flat Face, Dia.: 1 1/2"
- BT112 **PICK HAMMER**
Pick 2 3/4" long. Flat Face, Dia.: 1 1/2"
- BT116 **LONG PICK HAMMER**
Pick 14" long. Flat Face, Dia.: 7/8"
- BT117 Same as BT116 (except Curved Pick).
- BT121 **FLAT FACE HAMMER**
Small Rd. Flat Face 1 1/4" Dia.
Large Rd. Flat Face 1 3/4" Dia.
- BT127 **THICK CHISEL HAMMER**
Flat Rd. Face 1 3/4" Dia. Thick Chisel, 4 1/4" long.
- BT131 **CURVED PICK HAMMER**
Flat Rd. Face, 1 3/4" Dia. Curved Pick, 5 3/4" long.
- BT137 **BLUNT POINT HAMMER**
Flat Rd. Face 1 1/4" Dia. Blunt Point, 2 3/4" long.
- BT141 **PICK HAMMER—Long Handle**
8 oz. Short Pick, 1 1/2" long. Rd. Flat Face, 1 3/8" Dia.
- BT142 **PICK HAMMER—Long Handle**
9 oz. Long Pick, 3 1/4" long. Rd. Flat Face, 1 3/8" Dia.
19 1/4" Handle — Good reach.
- BT144 **SHARP POINT HAMMER**
Flat Rd. Face, 1 3/8" Dia. Sharp Point, 1 3/8" long.
- BT151 **DOUBLE END BEADING HAMMER**
1 3/8" Hammer ends opposite each other, one horizontal and one vertical. Overall head length 4 3/4". Wt. 3/4 lb.
- BT158 **SHRINKING HAMMER—Large**
16 oz. Flat Faces, Dia. Sq. 1 3/8", Rd. 1 3/4".
Rd. Face cross grooved.
- BT159 **SHRINKING HAMMER—Small**
8 1/2 oz. Flat Faces, Dia. Sq. 1", Rd. 1 1/4".
Rd. Face cross grooved.
- BT160 **PICK HAMMER**
7 1/2 oz. Flat Rd. Face 1 3/8" Dia. Pick 3 1/2" long.
- BT164 **SHRINKING CHISEL HAMMER**
Flat Rd. Face 1 1/2" Dia. Chisel, 2 3/4" long.
Rd. Face cross grooved.
- BT165 **OFFSET PICK HAMMER**
4 1/4" Offset Curved Picks
- BT166 **OVAL FACED HAMMER**
20 oz. Drop Forged
Rd. Face Oval runs with handle.
- BT167 **OVAL FACED HAMMER**
9 oz. Round Face Oval runs with handle.
Drop forged.
- BT201 **GENERAL PURPOSE DOLLY**
44 oz. 2 3/4" long, 2 1/2" x 2 1/2".
- BT204 **ROOF RAIL DOLLY**
Roof Rail and Bead Dolly. 40 oz. 3 3/4" x 2 1/4".
- BT211 **COMB. SPOON DOLLY**
35 oz. "Comma" Dolly, 5 1/2" x 2 1/2" x 1 3/4".
- BT217 **LOW CROWN DOLLY**
25 oz. 1" high, 3 1/4" long.
- BT221 **TOE DOLLY**
35 oz. 1" high, 4 1/2" long, 2 1/4" wide.
- BT222 **HEEL DOLLY**
32 oz. 1 3/4" high, 3" long, 2" wide.
- BT223 **GENERAL PURPOSE DOLLY**
40 oz. "Railroad" Dolly.
2" high, 2 1/4" long, and 2 3/4" wide.
- BT228 **GENERAL PURPOSE DOLLY**
36 oz. Easy to grip, 2" high, 2 1/2" long, 2 3/4" wide.
- BT248 **DOOR HANDLE SPOON**
15" long. Spoon ends 1 1/2" wide x 3 3/8" long.
- BT249 **SLAPPING SPOON**
2 lb. 10 1/4". Face 1 1/2" x 4 1/4" x 1/4".
- BT250 **COWL & FENDER BRACKET SPOON**
2 lb. Face 1 1/2" x 5 1/2". Handle 3/4" Octagon 5" long.
- BT251 **PANEL CUTTER**
7 1/2" long, 1/2" Octagon stock, with 1/4" Taper on cutting end.
- BT252 **FLANGE TOOL**
5 lbs.
- BT253 **SINGLE BLADE SPOON**
14" length. Face 1 1/2" x 5 1/2". Handle 3/4" Octagon, 6" long.
- BT254 **LARGE SPOON**
19" length. Faces are 1 1/2" x 5". Center handle is 10" Octagon Steel.
- BT255 **SMALL SPOON**
11 1/2" long. Faces are 1 1/2" x 3 1/2" long.
Center handle is 6" Octagon Steel.
- BT256 **CURVED SPOON**
Is 10 1/2" overall length. Face is 1 1/2" x 5 1/2".
Handle is 6" Octagon Steel.
- BT257 **FILE HOLDER**
Upright. Adjustable Wing-nut File Holder.
Wt. 1 1/4 lbs.
- UH-1 **UPHOLSTERER'S HAMMER**
High Polished, Drop Forged.
Magnetic hammer. W/O Claw.





Bumping Files

A labor saving tool for use in auto body repair shops. Use like a hammer with a dolly block to slap out dents. They have a tendency to make metal contract to its original shape, will not expand metal.

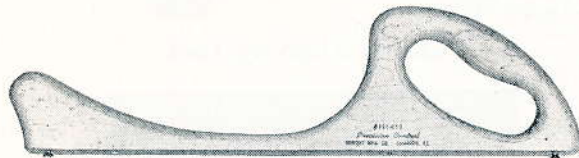


No.		
BT2088	Flat Coarse File	12"
BT2089	Flat Medium File	12"
BT2090	Half-Round Medium File	12"
BT2612	Complete Set of above three Files.	

File Holders



No. FH 22—Old Smoothie Holder



No. FH 11 — File Holder

Skroo-zon File Handle



You can't pull off a Skroo-zon Handle because it screws on. Cuts its own thread and will not split—it's everlasting. Saves accidents—indestructible.

No.	
FH- 6	For 6" file
FH- 8	For 8" file
FH-10	For 10" file

Sheet Metal Cutter



A fast, efficient time saving metal cutter, cuts up to 16 Gauge metal. Can be used where snips cannot be used, cuts round or square holes, formed or flat metal.

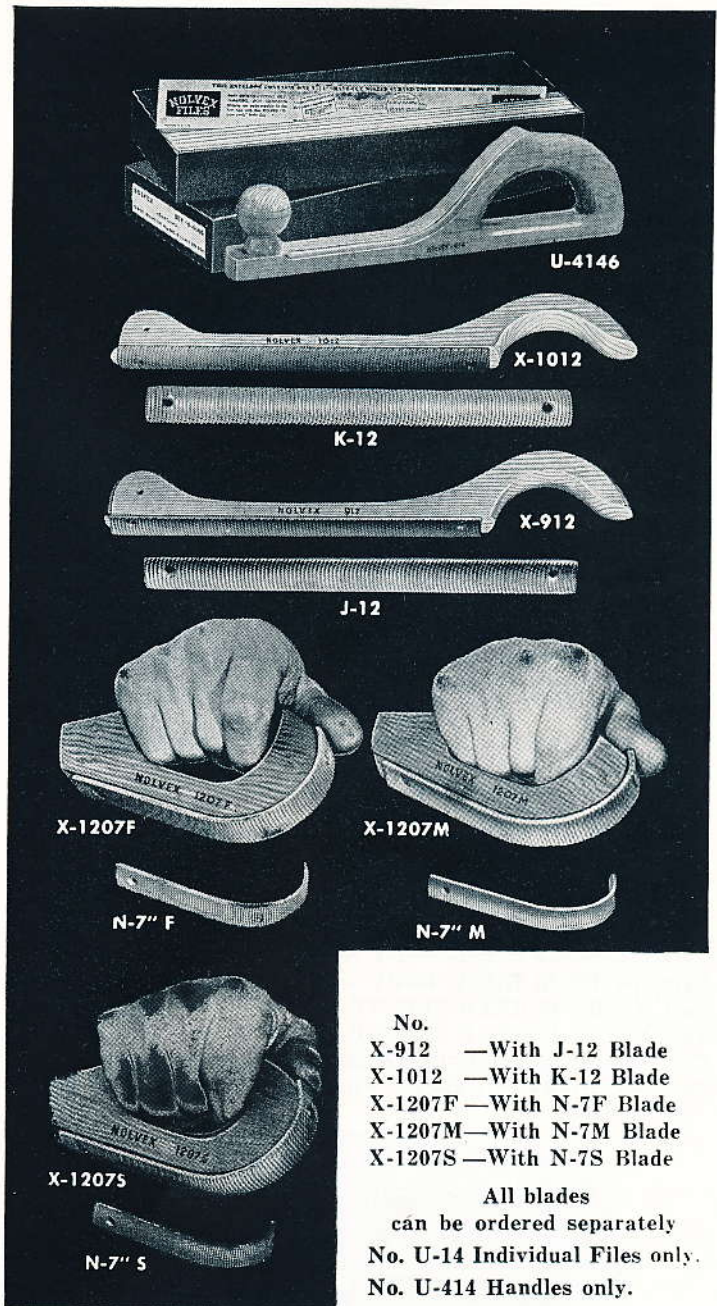
No. RMC-2

Mill, Flat & Round Bastard Files



No.	
MBF- 8	8" Mill Bastard File
MBF-10	10" Mill Bastard File
MBF-12	12" Mill Bastard File
FBF-10	10" Flat Bastard File
RBF- 8	8" Round Bastard File
RBF-10	10" Round Bastard File

Nolvex Body and Fender Files



No. U-4146—Set complete including six files and holder. Files as well as holder can be purchased individually.

Point Files



This double cut Tungsten file is the type preferred by all mechanics for filing breaker points.

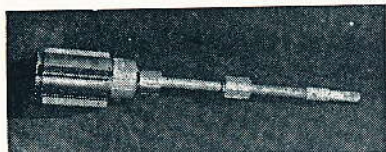
No.	Length Cut	O. A. Length
PF- 5	2 3/4"	5"
PF-10—.025" Thick	2 3/4"	5"



Hyland Hones

The Thoroughbred of Hydraulic Brake Cylinder Hones

This Hyland Hone, featuring a patented rubber impregnated abrasive (A WAR DEVELOPMENT) in combination with fibre blades, produces a fast yet smooth Honing tool for wheel and master Hydraulic Brake Cylinders.



- No. H-100 Hyland Hone Services Brake Cyls. $\frac{3}{4}$ " to 1"
- No. H-200 Hyland Hone Services Brake Cyls. 1" to $1\frac{1}{4}$ "
- No. H-300 Hyland Hone Set Services Brake Cyls. $\frac{3}{4}$ " to $1\frac{1}{4}$ "

Honing Blade Assemblies

Model H-100

Part No. H-140B — Honing Blade Assy. Services Brake Cyls. $\frac{3}{4}$ " to $\frac{7}{8}$ "

Part No. H-150B — Honing Blade Assy. Services Brake Cyls. $\frac{7}{8}$ " to $1\frac{1}{16}$ "

Model H-200

Part No. H-240B — Honing Blade Assy. Services Brake Cyls. 1" to $1\frac{1}{4}$ "

Part No. H-250B — Honing Blade Assy. Services Brake Cyls. $1\frac{1}{4}$ " to $1\frac{1}{2}$ "

Part No. H-260B — Honing Blade Assy. Services Brake Cyls. $1\frac{1}{2}$ " to $1\frac{3}{4}$ "

Part No. H-270B — Honing Blade Assy. Services Brake Cyls. $1\frac{3}{4}$ " to 2"



PARTS

- Part No. HC-15 HONE BODY — Fits H-100
- Part No. HC-25 HONE BODY — Fits H-200
- Part No. HC-35 REAR SLEEVE — Fits H-100
- Part No. HC-45 REAR SLEEVE — Fits H-200
- Part No. HC-55 LOCK PIN & SPRING — Fits all Models
- Part No. HC-95 FLEXIBLE SHAFT AND GUIDE — Fits all Models.

Hydraulic Brake Cylinder Cleaner and Polisher



This brake cylinder cleaner and polisher meets a demand for a satisfactory method to clean or polish the inside of a brake cylinder. The film of rust and muck is quickly, thoroughly cleaned in a few seconds. Also by wrapping a small piece of emery paper around the blades of the Cleaner and Polisher the cylinder can be honed to a mirror finish in a very short time.

- | No. | Description |
|--------|--|
| BC-10 | Cleaner and Polisher—Services Cylinders 1" to $1\frac{1}{2}$ " |
| BC-15 | Cleaner and Polisher—Services Cylinders $1\frac{1}{2}$ " to 2" |
| BC-10A | Replacement Polishing Heads Only |
| BC-15A | Replacement Polishing Heads Only |

Ridge Reamer—Announcing a New and Revolutionary Principle in Ridge Reamers

The principle of removing the ridge is the same as is employed when using an expansion reamer; therefore, a smooth wall surface is achieved.

The outside FINGERTIP ADJUSTING screw speeds up the resetting operation.

Featuring a CARBOLOY TIPPED CUTTER BLADE

That services many cylinders without re-sharpening.

No.

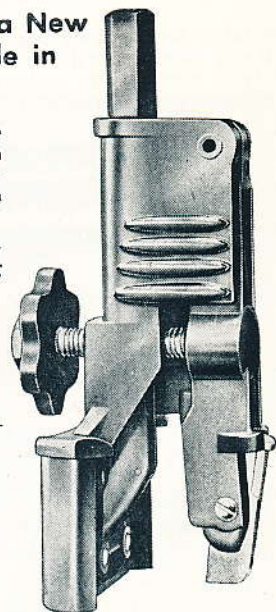
RR-104—Ridge Reamer

$2\frac{3}{8}$ " to $4\frac{1}{8}$ " Cap.

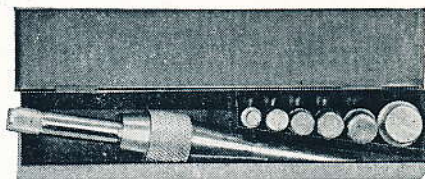
RB-2—Extra Cutter Blade Only

SP-2—Small Side Plate

SP-4—Large Side Plate



Clutch Aligning Tool



The new and complete clutch aligning set which covers all the necessary sizes for the mechanic to centralize and put in perfect alignment the clutch disc and pressure plate with the pilot bearing in the flywheel. This set contains dual pilots covering all 12 sizes, and the clutch aligning tool. These are machined and heat treated for accuracy and long service. Has bright nickel finish. Comes packaged in specially designed metal box.

No. CA-20

Valve Guide Reamers Solid Spiral Type



These solid type valve guide reamers are made of high grade tool steel, properly tempered, contains six spiral flutes. (or blades) unequally spaced, which eliminates chatter, permits sharpening to a keen edge, making it a free cutting tool

No.	Size	SETS	
1000	5/16"	}	No. 1015 — 5 Reamers 5/16"-1/2" Incl.
1002	11/32"		No. 1016 — 4 Reamers 5/16"-7/16" Incl. (In Metal Box)
1003	3/8"		
1006	7/16"		
1008	1/2"		

Thread Restorers



A few strokes across battered threads produce a true new thread—nut will then go on easily. These tools are real trouble and time savers.—NOT REPLACEABLE.

No. TR-1—Thread Restorer—has 8 thread sizes—11, 12, 13, 14, 16, 18, 20, and 24 threads to the inch.

No. TR-2—Thread Restorer—has 9, 10, 12, 16, 20, 27, 28, and 32 threads to the inch.



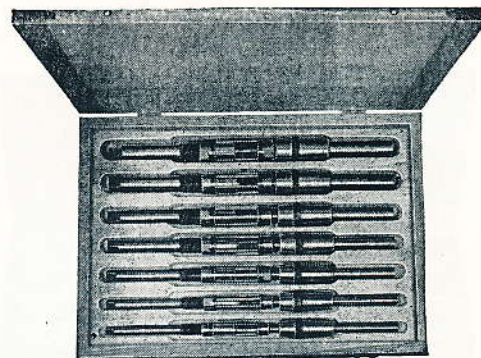
Solid Type Reamers For Popular Make Cars



These reamers have milled flutes on the front end to remove burrs or excess metal and allow the pilot to enter freely. Both ends of the reamer are ground to act as pilots. This insures perfect alignment.

	Size
No. 68-A For all A, B and V-8 Ford Pass. Cars including 1950. 1/2, 3/4 and 1 Ton Ford Trucks including 1950; also 1928-29 AA Ford Trucks, Mercury Cars 1938 to 1948 incl.8135
No. 69 For all AA, BB and V-8 Ford Trucks from 1930 to 1937 incl.	1.0045
No. 71 For all 1938 to 1950 incl. 1 1/2 Ton V-8 Ford Trucks; also F6 two Ton Trucks 1948-50 incl.	1.130
No. 73 For Chevrolet Trucks, Cab-Over Engine & Heavy Duty 1 1/2 - 2 Ton 1939-50 incl.	1.110
No. 74 For all Knee Action Chevrolet Pass. Cars 1934-50; 1941-49 1/2 - 1 Ton Trucks, All Packard Models 6 & 8, 1935-50 incl. All Pontiac 1934-35 Knee Action models867
No. 75 For all Chevrolet 4-6 cyl. Cars 1928-40 (except knee action); 1928-30 1 1/2 Ton and and 1929-40 1/2 - 1 Ton Trucks. All Pontiac cars 1928-36 (except knee action). Plymouth 1933 PC and PD, and 1934 PG models7353
No. 78-A For all Lincoln Zephyr and Lincoln 1937-50. Mercury 1950938
No. 79 Set of two reamers consisting of: No. 79-1 Reamer, for Upper Bushing No. 79-2 Reamer, for Lower Bushing For Timken Axle Nos. 30000 and 31000 Series. Reo Truck 1940-47 1 1/2 - 3 Ton Models 19, 20, 21, 22 Series.	1.1105 1.1105
No. 80 Set of two reamers consisting of: No. 80-1 Reamer, for Upper Bushing No. 80-2 Reamer, for Lower Bushing	1.2355 1.2355
No. 81 Set of two reamers consisting of: No. 81-1 Reamer, for Upper Bushing No. 81-2 Reamer, for Lower Bushing	1.3605 1.3605
No. 81-A Set of two reamers consisting of: No. 81-A-1 and No. 81-A-2. For GMC 700-750-800-850. Kenworth Diesel Trucks Model 521. Timken Axle 36000 Series	1.4855
No. 82 For all Chevrolet six 3/4 and 1 1/2 ton Trucks, 1931-50 (except Cab-Over-Engine & Heavy Duty).....	.922
No. 82+10 Same as No. 82. .010" Oversize932
No. 83 For all Chevrolet and Pontiac 1934, 1935 and 1936 Knee-Action Models	1.069
No. 84 For all Plymouth and Dodge models 1935-49, (except Dodge 7 Pass. sedan and Limousine), and some Chrysler and DeSoto Models, Kaiser and Frazer 1946-50 incl.7965
No. 85 For all Plymouth 4 cylinder models (also Piston Pin Bushing)751
No. 89 For all Buick 1934 to 1950 Models 40, 50, 60 & 70 (except 3450, 3550, 3460, 3560 & 3660). Oldsmobile 1926-50 all models. Pontiac 1937-50 all six and eight cyl.863

Improved Precision Pilot Reamers and Sets



These reamers have a double taper, counter sunk pilot bushings to get perfect alignment. This affords the best way to ream king bolt bushings, piston pin bushings, spring shackle bushings, water pump bushings, pitman arm bushings, and tie rod bushings. Furnished individually or in sets as follows:

Reamer Sets

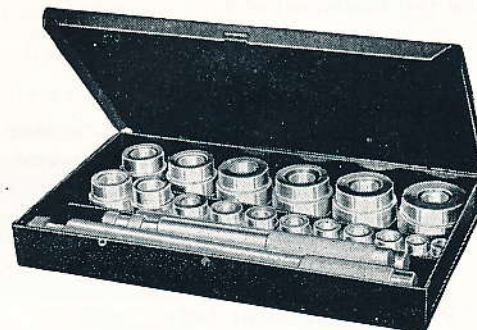
Set No. 16B—contains four reamers, 1-B to 4-B, in neat metal box.

Set No. 17B—contains seven reamers, 5-B to 11-B, in neat metal box.

Individual Reamers

Number	Size	Number	Size
1-B	7/16"- 1/2"	9-B	.915"-1"
2-B	1/2"- 9/16"	10-B	.985"-1-1/16"
3-B	9/16"- 5/8"	11-B	1-1/16"-1-1/8"
4-B	5/8"-11/16"	12-B	1-1/8"-1-1/4"
5-B	11/16"- 3/4"	13-B	1-1/4"-1-3/8"
6-B	.730"-13/16"	14-B	1-3/8"-1-1/2"
7-B	13/16"- 7/8"	15-B	1-1/2"-1-5/8"
8-B	.860"-15/16"	15-BA	1-5/8"-1-13/16"

Bushing Remover and Replacing Sets (Passenger & Truck)



These tools are made of a high grade steel, heat treated and tempered for hard use and long life.

The outside diameters are perfectly true with each other. A practical bushing remover and replacing set designed to meet the demand of the up-to-date garage. Cadmium plated in metal case.

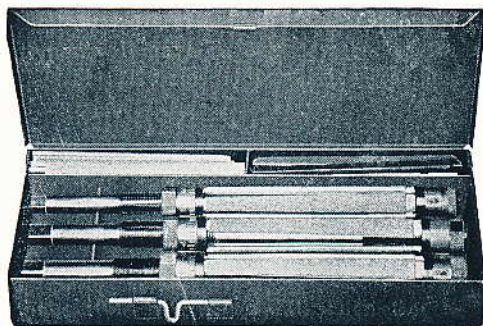
Bushing Driver Sets

No. 875-A—Range 3/8" to 1 3/8" — Standard Set.

No. 975-A—Range 15/16" to 1 3/4" — Heavy Duty Set.



Honing Sets for Piston Pins, King Bolt, and Pitman Shaft Bushing



Ream the Hole Slightly Small Then Do the Accurate Fitting With The Hone

This Hone enables you to do a Quick, Economical and Absolutely Satisfactory job on fitting piston pins, enlarging spring eye and spindle bushings, steering knuckle, shackle bolt, or front axle bushings, or to round and true up holes of small diameter in aluminum, bronze, steel, cast iron or alloy. It has a micrometer adjustment for expansion and contraction. These Hones give splendid results by hand or they will work on any reaming machine, lathe, drill or drill press of 50 to 150 R.P.M. by using kerosene or machine oil freely.

Each Hone has three abrasives giving an even three point bearing surface that guarantees accuracy. Each abrasive is tightly crimped on metal and a slight pressure toward the smaller end removes it immediately for replacement.

No.

200H—Complete Set as Illustrated

201 —Abrasives (1 doz. in package) Coarse

201F—Abrasives (1 doz. in package) Fine

202 —Burnishers, Set of 3

203 —Shims, Set of 3

203B—Die cast blades, set of 3

Hone Pilots

No. 214 Set of 3 Pilots, adaptable to all number 200 Hone Sets manufactured and sold since 1938.* In neat cardboard box.

Individual Hone Pilots

No. 210 Pilot for .725" hone body

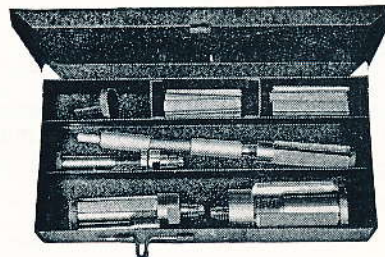
No. 211 Pilot for 3/4" hone body

No. 212 Pilot for 7/8" hone body

No. 213 Pilot for .990" hone body

*To determine if a hone set has been made prior to 1938, examine the 3/4" and 7/8" bodies; if the threads are flat rather than out to a sharp edge these pilots will not fit and the customer will have to buy new bodies for the two sizes mentioned. The .990 size body will fit regardless of when it was manufactured.

Hydraulic Brake Cylinder Hone



For all passenger cars and trucks, including the new type used on all Chrysler, DeSoto, Dodge and Plymouth since late 1947.

Each of the two small bodies in the number 925 Set has one set of three blade slots. The one body has shallow slots and the other body has the slots milled 1/32" deeper. The medium and large bodies each have two sets of three slots; one set of three milled shallow and the other set of three milled 1/32" deeper.

One set of blades expands 1/16 of an inch in each set of slots or, moving them from one set of slots to another gives 1/8 of an inch expansion; using the three sets of blades in this manner gives 3/16 of an inch expansion in each of the two small bodies, and 3/8 of an inch expansion in the medium and large size bodies so that the set illustrated with the four bodies has a range of from 3/4" to 1-7/8" which covers practically all pleasure cars and trucks.

The abrasives are all interchangeable with each size blade and the blades are all interchangeable with each size body. The abrasive cloth is a special type mounted on a metal back, furnished in two grades, coarse and fine.

Kerosene should be used freely when honing. It will prevent clogging and prolong the life of the abrasives. When adjusting, set flattened nut with wrench to prevent hone from chattering and blades working loose.

No. 925 Set as illustrated. Range 3/4" to 1-7/8", contains four bodies, three sets of three blades (small, medium and large), with abrasives mounted, 18 extra abrasives (9 coarse and 9 fine), special 1" cup screw to be used on medium size body when honing step bore cylinders, and flexible driving shaft adaptable to 1/4" or 1/2" electric drill, put up in neat metal box.

Individual Hone Sets Without Flexible Driving Shaft

**No. 879 1-7/8" to 2-1/4", put up in cardboard box

**No. 880 2-1/4" to 2-5/8", put up in cardboard box

**Numbers 879 and 880 Sets listed above contain 1 complete body, 3 sets of 5 blades (small, medium and large) with coarse abrasives mounted and 5 extra fine abrasives.

Individual Parts

No.

876-B-D 11/16" to 3/4" hone body with nut, collar and cup screw (Deep Slots)

876B-S 13/16"-15/16"-1-1/16" hone body with nut, collar and cup screw (Shallow Slots)

877B 1-1/8" to 1-1/2" hone body with nut, collar, cup screw and special 1" cup screw for use when honing step bore cylinders

878B 1-1/2" to 1-7/8" hone body with nut, collar and cup screw

879B 1-7/8" to 2-1/4" hone body with nut, collar and cup screw

880B 2-1/4" to 2-5/8" hone body with nut, collar and cup screw

899C One dozen coarse hone abrasives.

899F One dozen fine hone abrasives

896 Set of three small die cast blades

897 Set of three medium die cast blades

898 Set of three large die cast blades

920 Flexible Driving Shaft



Combination Slide Hammer Puller (and attachments)

A combination slide Hammer which is a complete tool in itself or may be used with the various attachments shown here below. The shaft has 6" of thread and may be used as a forcing screw. On most applications, however, the 4½ pound knocker easily loosens and removes the tightest gear or bearing. The fingers (4½" under the body) will handle gears up to 4½" O. D. These fingers may also be reversed for pulling bearing races and grease seals. The shaft has a removable, floating tip.

No.
SP-25

SP-20

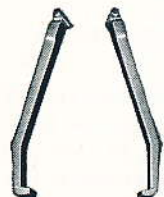
Slide Hammer Shaft Assembly

This assembly consists of the center shaft, "T" handle, and knocker of Puller No. SP-25. This assembly is made available for those who wish a single purpose tool for use with one or more of the attachments available.

Extra Long, Heavy Duty Jaws

These jaws are for use in heavy duty work that requires a larger capacity. They are 9" in length and will handle work up to 8" in diameter.

No.
SP-25JL—Extra long, Heavy Duty Jaws.



SP-25K



SP-25L



SP-25M



SP-25A
THRU
SP-25G

Attachments

(SP-25 or SP-20)

These are the various attachments available for use with the SP-25 and SP-20 Pullers, and enables the mechanic to use this universal tool for numerous operations.

SP-25H — SHACKLE PIN PULLING ATTACHMENT, for pulling those stubborn shackle pins. A few sharp blows with the slide hammer will remove any shackle pin.

SP-25K — AXLE SHAFT PULLING ATTACHMENT, will pull the axle shafts on most all late model cars.

SP-25L — HOOK PULLING ATTACHMENT, for pulling large grease seals, bearing races and pilot bearings.

SP-25M — OIL SEAL PULLING ATTACHMENT, pulls large range of seals in both pinion end and transmission end.

Axle Shaft Adaptors

These axle shaft adaptors are for use with either the No. SP-25 or SP-20 Slide Hammer Pullers. Sizes available fit practically all axles.

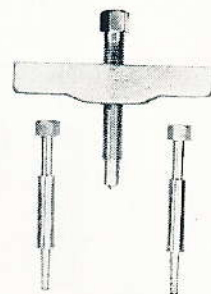
No.	Thread Size	No.	Thread Size
SP-25A	5/8" - 18	SP-25E	7/8" - 14
SP-25B	3/4" - 16	SP-25G	1" - 14
SP-25C	3/4" - 20		

Timing Gear Puller

A very handy tool for pulling timing gears and all other gears that have tapped holes. The sliding fingers enable the tool to handle gears of all widths, and for extra service, the 6" side screws are machined to handle the two most used thread sizes, 3/8-16 and 5/16-18. Length of body, 6½". Cadmium plated. Can be used in conjunction with Slide Hammer Puller No. SP-25 for many uses. Shipping weight, 4 lbs.

No. TP-5

TP-5B—Side Screws for TP-5.



Timing Gear Puller

Pulls Timing Gears, Fan Pulleys, Crank Shaft Balancers, Cam Gears and inside Pulling Jobs. Pulls Generator Gears, Bearings, Bearing Cones, Ball Races, and can be used in conjunction with the Bearing Separator which is drilled and tapped to receive its attaching screws.

The Forcing Screw is extra long to allow easy removal of Chevrolet fan pulleys; for pulling Buick crankshaft gears and for impulse neutralizer on all Chrysler-built cars. Also for all Timing Gears tapped for cap screws. Side screws have two threads sizes, 3/8" by 16 and 5/16" by 18. Complete with 11½" forcing screw.

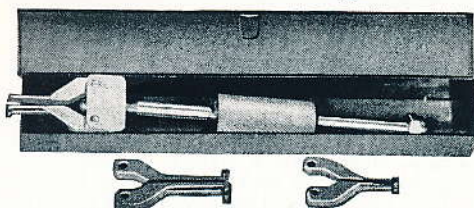
No.
TP-10 — Puller
TP-10B — Regular Side Screws (PR)
TP-10SS—7" Center Screws (PR)-TP-10
TP-10BL—Long Side Screws (PR)-TP-10 or TP-5

Chevrolet Harmonic Puller Adaptors

The above two screws and driver, shown at right of TP-10 Puller, may be used with the TP-10 to accomplish pulling of Chevrolet Harmonic Balancers.

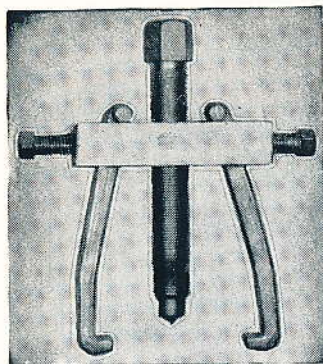
No.
HP-3—Chevrolet Harmonic Puller Adaptors.

Universal Pilot Bearing Puller



This bearing puller handles sleeve type bearings from ½" to 1½" inside diameter — flywheel bearings, pump bearings, generator bearings, etc. Finger tip adjustment quickly sets the puller to tight fit and with few taps of sliding hammer the bearing is removed. Equipped with "Regular" jaws. Extra Long and Short Thin jaws may be obtained as required.

No. BP-223 — Complete — Reg. Jaws
No. BP-223J — Reg. Jaws
No. BP-223JL — Extra Long Jaws — 4"
No. BP-223JS — Short Jaws



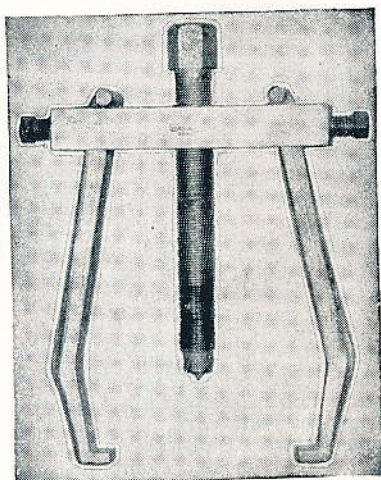
Reversible Finger Gear Puller

Another versatile gear puller with reversible fingers. This puller is especially adaptable to pulling ball races, generator gears, timing gears, small pinions and hubs. This tool will also remove the rear wheel and hub of the Ford V-8 and Models A and B. Cadmium finish.

No.	Finger Length	Jaw Capacity	Inverted Jaw Capacity	Center Screw Length	Weight Lbs.
GP-20	4 1/4"	5 1/2"	3/4"-6 1/2"	7 1/4"	5

Heavy Duty Gear Puller

This heavy duty tool has a range and pulling power that makes it especially suitable for truck, bus and tractor work. This puller also has the reversible fingers and side screw locking feature. Cadmium finish.



No.	Finger Length	Jaw Capacity	Inverted Jaw Capacity	Center Screw Length	Weight Lbs.
GP-40	7 1/2"	7 1/2"	2 1/4"-10"	8 1/2"	9

Knock-Off Wheel Pullers



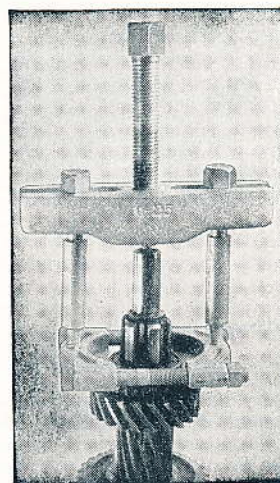
To use the "axle-type" wheel puller simply screw it on end of axle shaft until it bottoms, then by striking the end of the puller a sharp blow with a heavy hammer the wheel is loosened. For best results jack up opposite wheel.

We do not claim any superlative powers for our wheel pullers, but we do feel that we have improved a tool that is misused more than any tool in a mechanic's box. Our pullers have been put to the test by the men who have to use them every day.

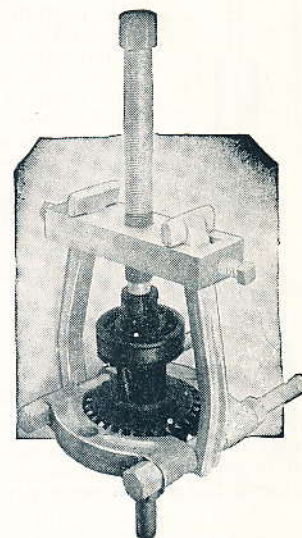
No.	Thread	Length	Weight	Hex Size
W-1	5/8-18	2 1/8"	10 ozs.	1 1/8"
W-2	3/4-16	2 1/8"	10 ozs.	1 1/8"
W-3	7/8-14	2 1/8"	14 ozs.	1 3/8"
W-4	1-14	2 1/8"	14 ozs.	1 3/8"

KW-12 Set consists of one each Nos. W-1, W-2, W-3 and W-4.

Timken Bearing Splitter and Pulling Attachment



BS-2 with TP-5 Puller



BS-2 with GP-40 Puller

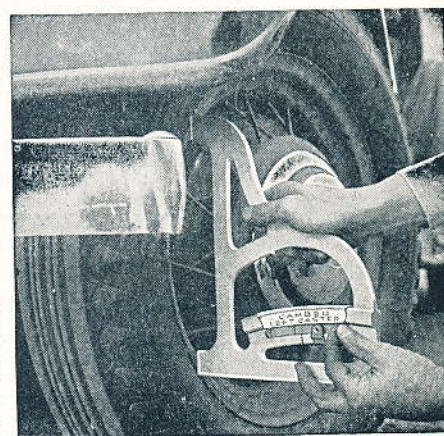
Here is a tool required to separate the double Timken Bearings on axle shafts. The knife-like edges of the blade wedge between the bearings, forcing them apart so they can be removed with the aid of a gear puller. Illustrations at left show how this tool may be used as an attachment to our finger type or side-screw puller. The sharp edges of this tool enable the mechanic to pull gears and bearings where space is too limited to apply the jaws of a puller. Forged of alloy steel, precision machined and heat treated throughout for rugged service and long life. Available in the following sizes

No.	Capacity	Weight
BS-1	1/4" to 2 1/2"	2 lbs.
BS-2	3/4" to 4 1/4"	6 lbs.
BS-3	1 1/2" to 6"	11 lbs.

Caster and Camber Gauge

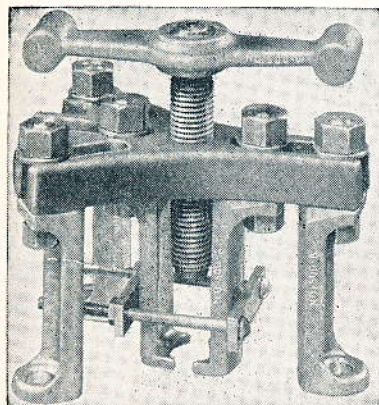
This gauge will test all makes and models of cars. It is precision engineered to do a fast, accurate, and dependable job. This gauge will be the mechanic's favorite, due to its simplicity of operation, and its effectiveness in helping sell the customer on proper caster and camber repair. It pays for itself, and then works many years for nothing.

No. CC-1





Springfield Universal Wheel, Hub and Gear Puller



Pulling Wheel Hubs from Studs

Designed for service station use and will pull all automobile hubs that have wire, disc or demountable wheels. Easily adjusted for any spread and will pull a five, six or seven studded hub. Will also pull gears, bearings, steering wheels, fan pulleys, disc drums, etc.

Taken apart, this puller fits into your tool box or is easily mounted on your shop tool board.

No.

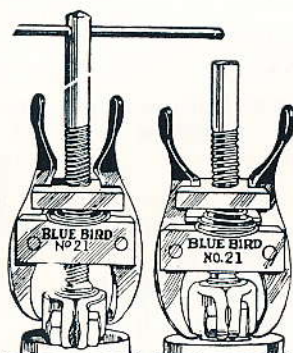
500 Complete without wrench

500W Wrench only

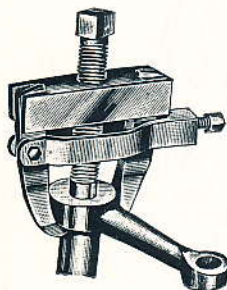
Universal Clamp Lifter

A super-powerful tool designed and guaranteed to remove the most badly corroded clamp. Grips from below if there's room — otherwise the sharp points of jaws engage sides of clamp with a vice-like grip. Double cam action. Simple operation — positive action. Packed in telescope box.

No. BP-21



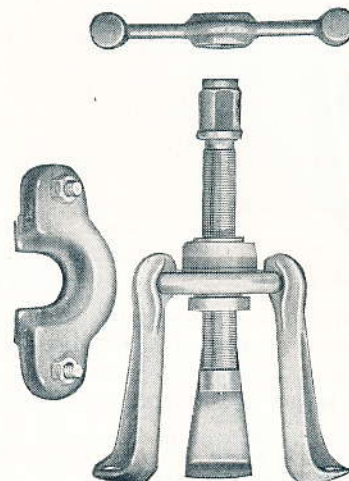
Pitman Arm or Steering Arm Puller



This extremely strong small puller is used to remove Pitman arms, gears, pulleys and bearings. Puller arms can be tightened on part to be pulled and cannot slip. Jaws open 2-15/16". Has reach of 1 1/4".

No. P-48—Pitman Arm Puller. (Weighs approximately 3 1/2 lbs.)

Universal Wheel Hub Puller



The WHEEL HUB PULLER is designed to handle a large range of work without a large number of extra adaptors and parts being necessary. The extra long jaws and extra long screw makes it possible to handle more work. The Tool has drop-forged jaws and links and a solid center hub. No cast iron parts are used. You will find the WHEEL HUB PULLER the correct tool for trouble-free removal of wheel hubs.

Tool may be used to remove tractor flywheels. It can also be used to remove gears having cap screw holes in them. It can be mounted on your work bench so as to form a handy shop press. Steel plates can be made with holes in them and by placing these plates behind pulleys on various farm machinery and then attaching puller many sizes of pulleys can be easily removed.

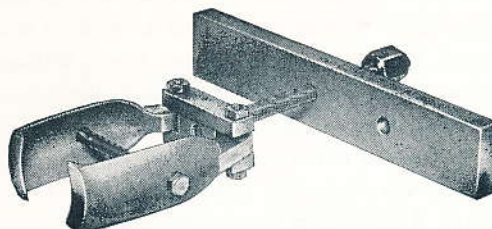
No.

UV-20 Puller complete with three arms

UV-22 Ford attachment

(Extra arms carried in stock)

Pinion Gear Puller



This puller is a necessary addition to shops servicing General Motors Cars.

Saves time and labor and eliminates the necessity of removing the drive shaft and rear axle to pull pinion gear on regular or hypoid gears by using this wide, thin-lipped jaw pinion puller. Special tension screw through the jaws assures a firm grip on the gear. Saves readjusting brakes.

No.

P10300 —G. M. Pinion Puller

P10301 —Housing Bar Only

P10302 —Forcing Screw Less Nut

P10303 —Nut only for Forcing Screw

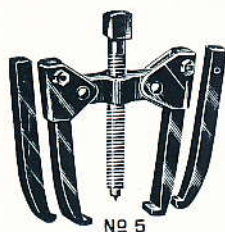
P10304 —Puller Block Only Less Bolt-Nuts

P10305 —Bolts and Nuts for Puller Block

P10306 —Jaw Adjusting Bolt-Nut, 4 1/2"

P10300J—Puller Jaws, Pair

No. 5 Gear Puller



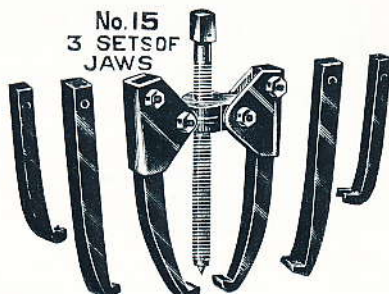
The handiest Puller ever devised for small pulling jobs such as generator gears, bearings and general electrical repair work and is also an ideal tool for removing tight battery terminals. It exerts a straight positive pressure, thus eliminating all chance of broken battery posts.

Comes with narrow and wide sets of jaws, both being necessary for general purposes. This Puller can also be used for removing the smaller timing gears, such as are found on electric light plants and gasoline engines.

No. 5-1 Gear Puller with wide jaws only.

No. 5-2 Gear Puller with both pair jaws.
Shipping wt. 3 lbs.

No. 15-3 Gear Puller



Our No. 15 Gear Puller with three sets of interchangeable jaws is a universal timing gear puller as well as the correct size for most general medium garage work. Will pull 95% of all timing gears on old and new cars, including Buick, Ford, Chevrolet, Pontiac, Nash, Chrysler, Hudson, etc. Jaws shown in frame are narrow type for general work. Second set illustrated are wide and thin on the lips for reaching behind gears with limited space clearance. Third jaw set are slotted on the ends to take ordinary cap screws, which are turned into timing gears with tapped holes. Take 5/16", 3/8" and 7/16" Cap Screw sizes.

Depth reach of puller 5 inches. Spread of jaws or reach 7 in. Pulling power 7 ton.

No.

15-3 Gear Puller Comp.

15 Frame only—less jaws

Narrow, Wide or Cap Screw jaws only, per pair

Shipping wt. 9 lbs.

Universal Gear and Bearing Pullers



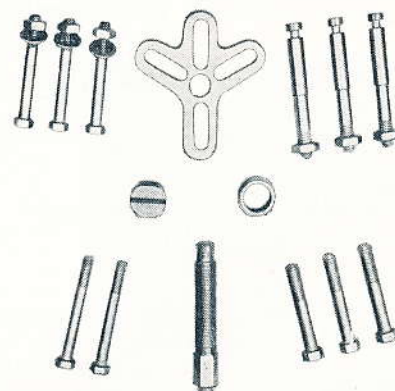
88-3

A combination puller for present day requirements, with features to guarantee satisfaction on a wide variety of work. As illustrated, three sets of jaws fit the same bar and screw, the narrow and wide jaws being designed for the usual timing gear, pinion and pulley work. Narrow jaws have considerable curve and are heavily built for powerful pulling, while the wide jaws have a 3/16" thick lip for reaching behind gears where only limited space is available. With narrow jaws the puller has remarkable spread and depth reach, as a pulley measuring five inches in diameter with a five-inch face can be removed with ease. Total depth reach is 6 1/4" inches. Has hand forged jaws, a 5/8" screw, 9 1/2" long and special fine thread for greater power. Will maintain its grip without slipping and is heat treated throughout.

No.

88-3 Universal Puller complete as illustrated
Shipping weight 18 lbs.

Universal Steering Wheel Puller

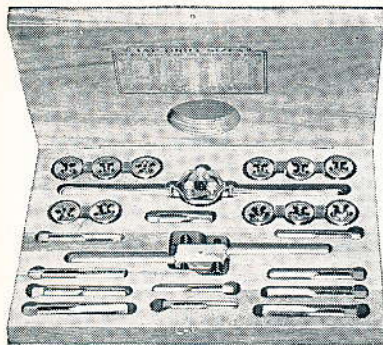


This is a steering wheel puller set which will pull most late model steering wheels. Set consists of four sets of studs, including a special set for Buick—a body, forcing screw and an adaptor.

No. SP-40 Steering Wheel Puller



Tap and Die Set (Round & Adjustable Dies)



The set as shown consists of eleven taps and eleven dies which cover a range in S.A.E. and U.S.S. threads $\frac{1}{4}$ " to $\frac{1}{2}$ " with a $\frac{1}{8}$ " pipe tap and die.

Also Die Stock with Adjustable Guide and an Adjustable Tap Wrench.

The Adjusting Screw on Die will change size of die .001 to .003 over or under.

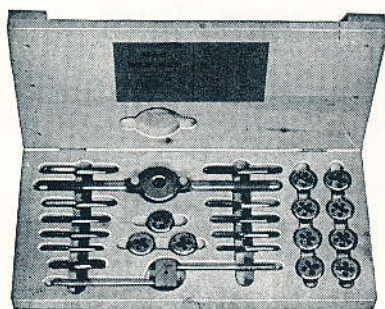
This is a High quality set containing the most necessary sizes required for Automobile Work. The Dies are adjustable making possible a loose or tight fit to the Thread. This therefore provides advantages of solid die and those of Split Dies.

No. 46TD—Set contains one each of the following units neatly packed in a fine wood box:

No.	No.
DS4 Die Stock	T2 $\frac{1}{4}$ —20 U.S.S. Tap
TW1 Adj. Tap Wrench	T4 $\frac{5}{16}$ —18 U.S.S. Tap
D2 $\frac{1}{4}$ —20 U.S.S. Die	T6 $\frac{3}{8}$ —16 U.S.S. Tap
D4 $\frac{5}{16}$ —18 U.S.S. Die	T8 $\frac{7}{16}$ —14 U.S.S. Tap
D6 $\frac{3}{8}$ —16 U.S.S. Die	T10 $\frac{1}{2}$ —13 U.S.S. Tap
D8 $\frac{7}{16}$ —14 U.S.S. Die	T12 $\frac{1}{4}$ —28 S.A.E. Tap
D10 $\frac{1}{2}$ —13 U.S.S. Die	T14 $\frac{5}{16}$ —24 S.A.E. Tap
D12 $\frac{1}{4}$ —28 S.A.E. Die	T16 $\frac{3}{8}$ —24 S.A.E. Tap
D14 $\frac{5}{16}$ —24 S.A.E. Die	T18 $\frac{7}{16}$ —20 S.A.E. Tap
D16 $\frac{3}{8}$ —24 S.A.E. Die	T20 $\frac{1}{2}$ —20 S.A.E. Tap
D18 $\frac{7}{16}$ —20 S.A.E. Die	T22P $\frac{1}{8}$ " Pipe Tap
D20 $\frac{1}{2}$ —20 S.A.E. Die	
D25 $\frac{1}{8}$ " Pipe Die	

HA-5 Hex Adaptor for Round Dies (Not included in set)

Tap and Die Set (Solid Hex Dies)

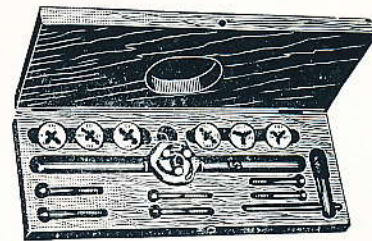


For Rethreading in those cramped places and for cutting new threads. Hex Dies can be used with socket or end wrench. Polished hardwood box.

No. 45TD—Set contains one each of the following units neatly packed in a fine wood box:

No.	No.
DS-4H Die Stock	T2 $\frac{1}{4}$ —20 U.S.S. Tap
TW-1H Adj. Tap Wrench	T4 $\frac{5}{16}$ —18 U.S.S. Tap
D-2H $\frac{1}{4}$ —20 U.S.S. Die	T6 $\frac{3}{8}$ —16 U.S.S. Tap
D-4H $\frac{5}{16}$ —18 U.S.S. Die	T8 $\frac{7}{16}$ —14 U.S.S. Tap
D-6H $\frac{3}{8}$ —16 U.S.S. Die	T10 $\frac{1}{2}$ —13 U.S.S. Tap
D-8H $\frac{7}{16}$ —14 U.S.S. Die	T12 $\frac{1}{4}$ —28 S.A.E. Tap
D-10H $\frac{1}{2}$ —13 U.S.S. Die	T14 $\frac{5}{16}$ —24 S.A.E. Tap
D-12H $\frac{1}{4}$ —28 S.A.E. Die	T16 $\frac{3}{8}$ —24 S.A.E. Tap
D-14H $\frac{5}{16}$ —24 S.A.E. Die	T18 $\frac{7}{16}$ —20 S.A.E. Tap
D-16H $\frac{3}{8}$ —24 S.A.E. Die	T20 $\frac{1}{2}$ —20 S.A.E. Tap
D-18H $\frac{7}{16}$ —20 S.A.E. Die	T22P $\frac{1}{8}$ " Pipe Tap
D-20H $\frac{1}{2}$ —20 S.A.E. Die	D25H $\frac{1}{8}$ " Pipe Die

Tap and Die Set

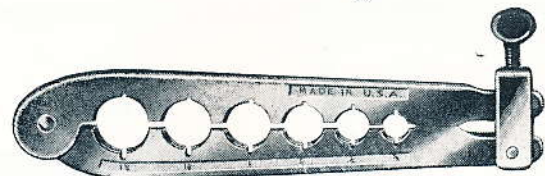


The No. 22TD Machine Screw Tap and Die set carries six very popular size Machine Screw Taps and Dies. The set also contains the Adjustable Guide Die Stock and an Adjustable Tap Wrench of the Tee Type can also be used as a Reamer Wrench within its capacity.

No. 22TD—Set contains one each of the following units neatly packed in a fine wood box.

No.	No.
MST5 4-36 M.S. Tap	TW-2 "T" Type Tap Wrench
MST10 6-32 M.S. Tap	MSD5 4-36 M.S. Die
MST15 8-32 M.S. Tap	MSD10 6-32 M.S. Die
MST20 10-24 M.S. Tap	MSD15 8-32 M.S. Die
MST25 10-32 M.S. Tap	MSD20 10-24 M.S. Die
MST30 12-24 M.S. Tap	MSD25 10-32 M.S. Die
DS2 Die Stock	MSD30 12-24 M.S. Die

Axle Rethreading Die



This Axle Rethreading Die is used for rethreading axles without removing them from the housing.

Wheels removed with difficulty using the knock-off type wheel puller the threads are occasionally damaged. This Axle Rethreading Die will rechase the threads quickly. The die is split for quick application and is fitted to the threads at the back end of the axle. Always apply the tool to the rear of the thread and back it off.

Has the following S.A.E. thread sizes: $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1", $1\frac{1}{8}$ " and $1\frac{1}{4}$ ".

No. AD-10—Length 11".

Spark Plug Threading Tools



Aluminum is a soft metal and threaded holes in it must be used with the greatest caution. A spark plug that is not started straight can easily strip the thread in the cylinder head. Most cylinder head pullers use the spark plug holes to lift the cylinder head and the danger of stripped threads is always present.

No.	Description
SPT-10	10 m/m Packard
SPT-14	14 m/m (V8-60 Ford)
SPT-18	18 m/m (V8-85 Ford)
SPT-25	$\frac{7}{8}$ -18
SPC-4	4 Step Counterbore

SPT-40 Set—Contains one each of the above put up in very fine wood box.



Buckingham Thread Cleaners

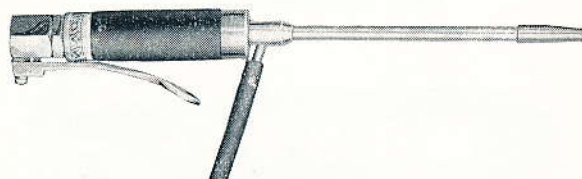


Once over with this thread restorer and cleaner, and battered or rusted threads are like new — Cleans and restores, does not cut away but leaves a nice snug fit for the nut. NOTE: The Guide Wheel, is merely a guide to seek first the depth of the original thread and guide the tool. Do not force it, fit it just snug, and be careful not to set the tool to the depth of the cotter key holes. This tool will clean and restore, without forcing, fits any left or right hand standard pipe or machine thread.

Note: The small area of swing required for the No. TC-6203, for those jobs allowing small working space.

No.	Min.	Max.	Swing
TC-6103	1/4"	to 1"	7"
TC-6104	1"	to 2 9/16"	10"
TC-6106	2"	to 4"	9"
TC-6203	1/4"	to 1"	2 3/4"
TC-6204	1"	to 2 9/16"	4 5/8" to 5 3/8"

Lonm "Alspray" Gun



A Cleaning Spray-Gun

An improved spray unit for applying kerosene or other cleaning solvents with compressed air. Quickly removes dirt, grease and oil from engines, parts, motors, generators and machinery. Operates without adjustment on any air pressure from 35 to 175 pounds.

No. CG-13—Spray Gun. (Includes 6 Ft. Neoprene hose)

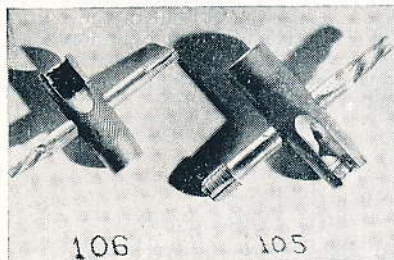
Repairman's Reamer



A long tapered hand reamer for use wherever holes are to be enlarged in sheet metal or other material. Convenient T-Handle type, eliminates need of additional wrench when using. Made of highest quality steel and heat treated to give long and satisfactory service.

No. RR-120 Repairman's Reamer.

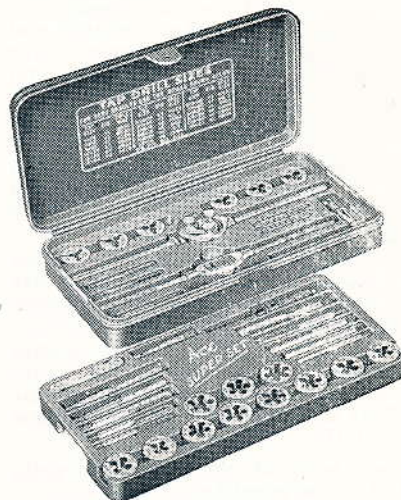
Zerk Fitting Tools



The GT-105 tool for removing and replacing 3/8" and 7/16" hex. Zerk fittings, and removes broken fittings, and retaps 1/8" NPT.—GT-106 tool for removing and replacing 5/16" and 3/8" hex. Zerk fittings and also removes broken fittings and retaps 1/4" NPT. Tools are hardened and plated.

No.
GT-105 Zerk Fitting Tool
GT-106 Zerk Fitting Tool

Tap & Die Super Set



Here is a set that will delight the mechanic. A lightweight, compact kit with a popular size range of taps, dies, handles and accessories — 39 tools, each in its own easy-to-reach compartment — all in a sturdy, unbreakable pliable plastic green case.

The Following List of Contents Shows It Really Is A Super Set.

1 each No. DS-4 Die stock, No. TW-9 Tap & Reamer Wrench, No. TW-2 T-Tap Wrench, No. SG-514 Screw Pitch Gauge, Screw Driver and 1 each Tap and Die in the following sizes:

4x36, 6x32, 8x32, 10x24, 10x32 and 12x24 Machine Screw Std. 1/4x20, 5/16x18, 3/8x16, 7/16x14, and 1/2x13 NC (U.S. Std.) 1/4x28, 5/16x24, 3/8x24, 7/16x20 and 1/2x20 NF (SAE Std.).

T22P Pipe Tap and D25 Pipe Die.

Note — No. HA-5 Hex Die Adapter to use above dies for conversion to HEX type, available as addition to set.

No. 614-A—Super Set.

Tap and Reamer Wrench

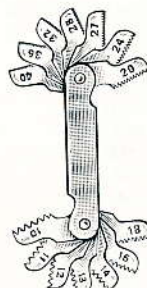


A very handy, quick action, sure grip tap and reamer wrench. Has hardened jaws, polished nickel finish and can be taken apart for cleaning. Small, easy to use, you will like this one.

Capacity — 4 x 36 to 1/2" Taps Incl.

No. TW-9 Tap & Reamer Wrench.

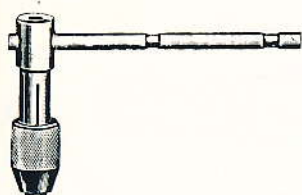
Screw Pitch Gauges



These gauges enable the user to measure either U.S. form threads or sharp V threads with same gauge. Each blade has accurate milled threads, and thread angles and pitches are held well within commercial tolerances.

Measuring sizes — threads per inch. All 60 degree angle, U.S. thread form. 14 Blades — 10 — 11 — 12 — 13 — 14 — 16 — 18 — 20 — 24 — 27 — 28 — 32 — 36 and 40.

No. SG-514—Screw Pitch Gauge.



T Handle Tap Wrench

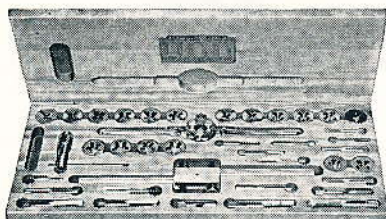
Sliding handle type with spring tension to hold handle in any desired position. Nickel plated with blued nuts.

TW-2 Tap Wrench
TW-5 Tap Wrench

Size 0 to 1/4"
Size 1/4" to 1/2"

Screw Plate Set

(1/4" to 3/4" Capacity) Round and Adjustable Dies



The set consists of (40) pieces as listed below. All dies except pipe dies are adjustable. Set is of high quality and packaged in fine wood box.

No.
75TD—Complete Set in Box

No.
DS-35—Die Stock
TW-2E—T-Tap Wrench
TW-121—Adj. Tap Wrench
D2L —1/4-20 USS Die
D4L —5/16-18 USS Die
D6L —3/8-16 USS Die
D8L —7/16-14 USS Die
D10L—1/2-13 USS Die
D11L—9/16-12 USS Die
D13L—5/8-11 USS Die
D15L—3/4-10 USS Die
D12L—1/4-28 SAE Die
D14L—5/16-24 SAE Die
D16L—3/8-24 SAE Die
D18L—7/16-20 SAE Die
D20L—1/2-20 SAE Die
D22L—9/16-18 SAE Die
D24L—5/8-18 SAE Die
D26L—3/4-16 SAE Die
D25L—1/8 Pipe Die
D30L—1/4 Pipe Die

T2 —1/4-20 USS Tap
T4 —5/16-18 USS Tap
T6 —3/8-16 USS Tap
T8 —7/16-14 USS Tap
T10 —1/2-13 USS Tap
T11 —9/16-12 USS Tap
T13 —5/8-11 USS Tap
T15 —3/4-10 USS Tap
T12 —1/4-28 SAE Tap
T14 —5/16-24 SAE Tap
T16 —3/8-24 SAE Tap
T18 —7/16-20 SAE Tap
T20 —1/2-20 SAE Tap
T22 —9/16-18 SAE Tap
T24 —5/8-18 SAE Tap
T26 —3/4-16 SAE Tap
T25L—1/8 Pipe Tap
T30L—1/4 Pipe Tap

1 — Screw Driver for Die Adjustment

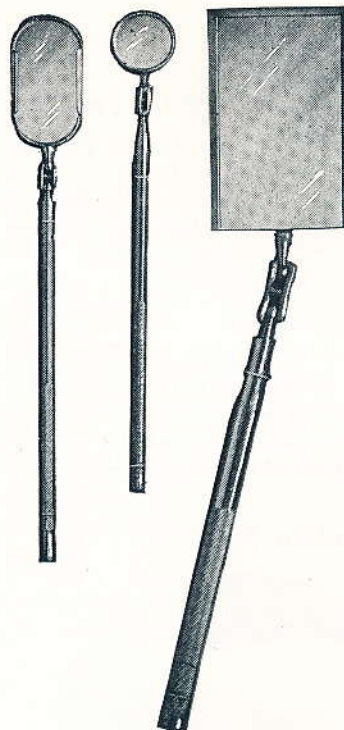
Finger-Tip Controller



This is a new tool, made of highest quality. It has a regular push-button starter switch, which is incased in a solid rubber ball.

It will not break when dropped on concrete. A time and man-hour saver, eliminates the mechanic crawling in and out from under the car. This puts the starter right in the mechanic's hand always, for point, flywheel or any motor turn-over job. It gives the mechanic a third hand to work with. Not replaceable.

No. FT-20



Mechanics' "All-Angle" Mirrors

For a quick look into hidden spots, 3 sizes and shapes for mechanics' inspection needs.

MA-2 Easy hold, knurled handle, round 7/8" mirror.

MK-2 Telescoping handle, has 2 1/8"x3 1/2" rectangle mirror, overall length 15 1/2" telescoped —folded 6 5/8".

MB-2—Knurled handle, has overall length 8 1/2". Oval mirror 1"x2".



Moto-Phone

Brings to mechanical trouble shooting the sensitivity of the medical stethoscope. Invaluable in isolating hard-to-locate noises. Made of finest materials.

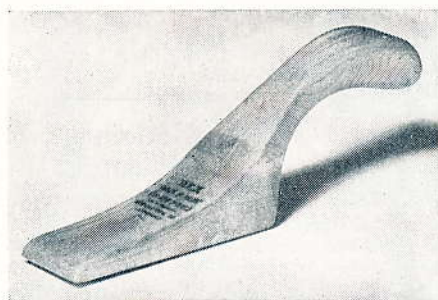
No. MP-10



Gasket Or Hollow Punch Set

Seven popular sizes from 1/4 to 3/8 inch inclusive in compact metal case. This is a really serviceable set and will stand unlimited use when a Babbet or wooden block is used under material when punching holes in gaskets.

No. 79-P — Set complete in case.



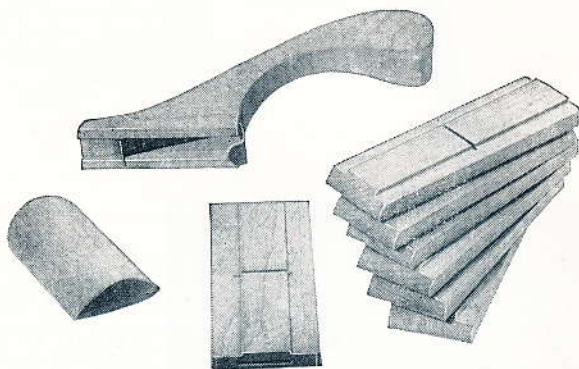
Solder Paddles

Hard maple for long lasting, clog-free service. Boiled in tallow to preserve and lubricate.

No.	Blade
SP 11	4" x 1 3/8" (flat)
SP 22	4" x 1 3/4" (flat)
SP 33	5" x 1" (rounded)

SP 3 Complete set of three

Solder Paddle Set

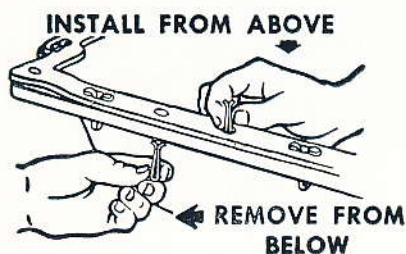


A complete set of solder paddles with handle, equipped with patented spring clip, which enables the user to remove and replace different shape paddle blades quickly.

Handles and blades are made of hard maple and boiled in wax, for long life. When blades are worn, you just replace the old blade with a new one on the original handle. Set consists of 8 blades and handle as pictured above.

No.	
SP-50	Solder Paddle Set—Complete
SP-51	Blade—Narrow Flat
SP-52	Blade—Wide Flat
SP-53	Blade—Half-round
SP-54	Handle only

Gasket Clips



No. GK-1

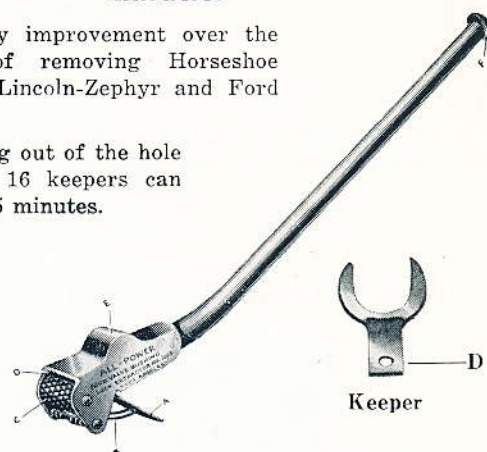
The mechanic's friend, new, modern and easily attached and removed . . . A simple application to save time and money. Packaged—1 Doz. to pack.

Ford Valve Keeper Extractor

A revolutionary improvement over the old method of removing Horseshoe Keepers from Lincoln-Zephyr and Ford motors.

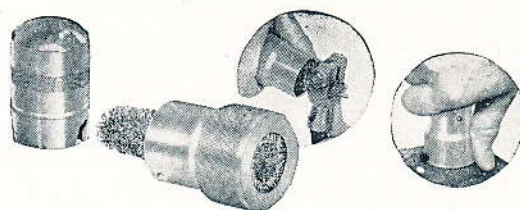
Prevents tearing out of the hole in keeper. All 16 keepers can be removed in 5 minutes.

Tongue of keeper is inserted at letter D of tool photo.



No. KE-203 Length 25"

Battery Post Cleaner



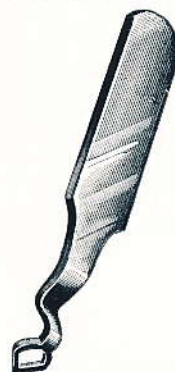
This is the tool that makes the hit with the mechanic's customer. A combination tool to clean to a sparkling degree, the battery post and also the cable terminal.

It has a fine wire post cleaner on one end, and a fine wire hone for cleaning the cable terminal on the opposite end. Metal covered with a smooth chrome finish. Durable and rugged, it will last for years.

No. BB-5

Locking Strip Tool

Now you can install self-sealing rubber weatherstrip quickly. This tool automatically spreads the channel to receive the locking strip, and the heel of tool presses it in securely as it passes along. Packed individually in handsome leathette case.



No. GT-110 Locking Strip Tool.

Mechanic's Pocket Knife

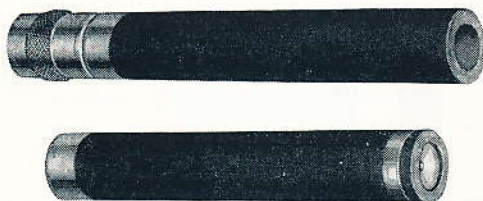


A durable, heavy-duty knife, made of the finest quality steel. Has a 3" blade and a 2" blade. Brass partitioned for long and rugged wear.

No. PK-5



Water Saver Set

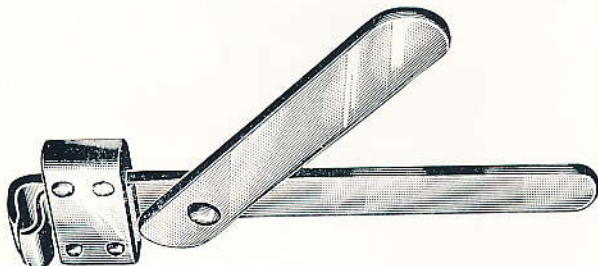


This water saver will cut water bills in half, and will pay for itself 50 times over. Attach it to the water hose; pick it up and the water is on, drop the hose and the water is off. A fast, handy, and economical way to wash cars, service courts, driveways, etc.

No.

- WS-400 Water Saver Set Complete
- WS-400A Open Flow Hose and Water Valve
- WS-400B Forced Fine Stream Hose and Valve
- WS-404A Open Flow Hose Only
- WS-405B Forced Fine Stream Hose Only
- WS-404V Water Valve Only

Drip Rail Molding Tool



This is a Hammer type tool, with Jaws designed to conform to the shape of the drip molding. Tool is made of high grade steel, hardened, and smooth finished. May be driven along the drip rail from either side of the damaged section. A quality tool of the first degree.

No. DR-109

Steel Rule



A stainless steel rule with accurate, quick reading graduations. It has depth gauge, also has decimal equivalents on back side. Has pocket clip attached.

No. SR-6

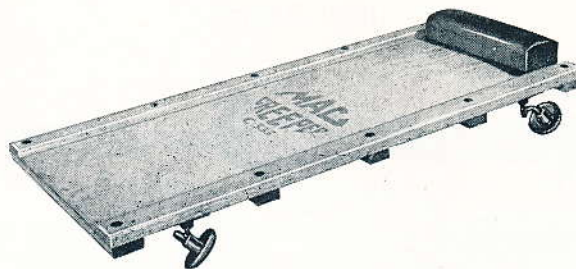
Head Guide Tool



Head Guide Tool is used on all cars and trucks using head bolts instead of studs — saves time and eliminates damage to head gaskets.

No. HG-21A Complete with four Dowels.

Mac Creeper



This creeper is sturdy, with a kiln dried oak frame, strong plywood platform, completely finished and varnished. It is equipped with 2-1/2" Roller Casters. Rolls over rough floors, casters do not clog with dirt and grease. This is very durable but light in weight.

Separate caster sets (4) are available for replacement on all types of creepers.

No.

- C333—Creeper
- C3C —Creeper Caster (Set of 4)

Mac Creeper Seat

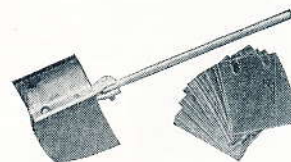


For those jobs where the repairman must work in a sitting position. This seat lessens fatigue and increases efficiency. It is ideal for brake work, fender and frame work, wheel alignment and many other jobs of this nature. It is constructed with strong welded steel frame, kiln-dried hardwood seat surface

with tool tray below, and roller casters as supplied on the Mac creeper.

No. C3-S

Brake Cylinder Honer



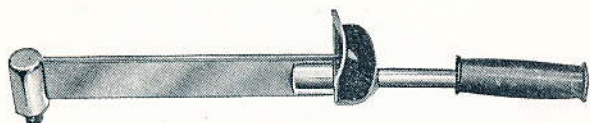
New and revolutionary brake cylinder honer. Reconditions brake cylinders of all sizes. Self-adjusting and self-aligning. It gives a perfect and true polished surface in a minimum of time and effort. Easily used with any electric or hand drill. Abrasives are renewable and easily changed. It will clean out Ford V-8 valve guide port holes.

No.

- BC-103 —Brake Cylinder Honer
- BC-103G—Honer Grits (Package of 30)



Mac Torque Wrench (Flat Beam)



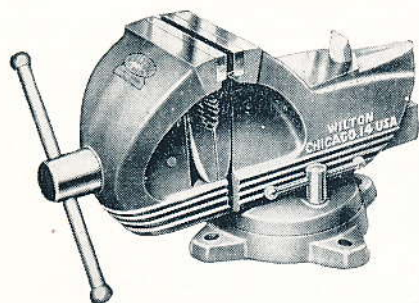
A tool for tune-up and motor rebuilding, cylinder head work, connecting rods, main bearings. Designed and engineered for jobs requiring extreme accuracy.

Every car, truck or tractor has specifications on machining tolerances and torque control, regardless of make of engine. Torque control is practiced on the assembly line and should be practiced in the service field. This is made possible by the MAC TORQUE WRENCH.

EVERY MAC WRENCH is custom engineered for accuracy. EASY TO READ DIALS indicate torque either right or left. FLOATING HANDLE controls load position.

	Capacity Lbs.	Graduation	Sq. Drive	Dials	Lgth.
TMA-25	0 to 25'	1'	Lb.	1/2" or 3/8"	2 15 1/4"
TMA-50	0 to 50'	2 1/2'	Lb.	3/8"	2 15 1/4"
TMA-100	0 to 100'	5'	Lb.	1/2"	2 17 1/2"
TMA-150	0 to 150'	5'	Lb.	1/2"	2 26 1/2"
TMA-200	0 to 200'	5'	Lb.	1/2"	2 26 1/2"
TMA-300	0 to 300'	10'	Lb.	3/4"	2 34 3/4"
TMA-300I	0 to 300"	12 1/2"	Lb.	3/8" or 1/2"	2 15 1/4"
TMA-600I	0 to 600"	25"	Lb.	3/8" or 1/2"	2 15 1/4"
TMA-1200I	0 to 1200"	50"	Lb.	1/2"	2 17 1/2"
TMA-1800I	0 to 1800"	50"	Lb.	1/2"	2 26 1/2"
TMA-2400I	0 to 2400"	50"	Lb.	1/2"	2 26 1/2"
TMA-3600I	0 to 3600"	100"	Lb.	3/4"	2 34 3/4"

"Wilton" Vises

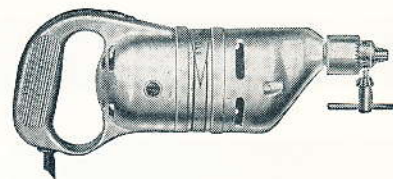


The new WILTON "SHOP KING" vise incorporates all of the features you want in a quality tool. Swivel base rotates to 200 degrees. Hardened and serrated steel jaws are replaceable and interchangeable. Pipe jaws full of gripping power and removable. Hardened Cut-Off tool for

greater versatility can be placed in slot and removed from vise as required. Finished in bright red enamel, jaw tops and anvil brightly polished. Comes in three popular sizes.

No.	Jaw Width	Max. Opening	Pipe Jaw Capacity	Weight
V-633	3"	3 1/2"	0-1 1/2"	14 Lbs.
V-634	4"	4 1/2"	0-2"	29 Lbs.
V-635	5"	5 1/2"	0-2 1/2"	42 Lbs.

Light Duty 1/4" "Cummins" Drill



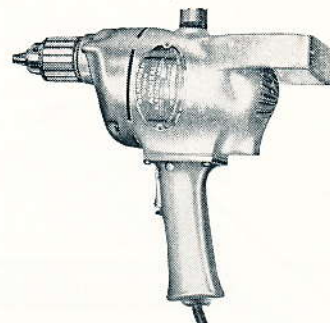
A new high in value and precision, a new low in price. Full-sized, superbly balanced, permits finger tip control in all positions. Built to micro inches, performs equally with higher priced drills on metal, plastic or wood precision and production drilling. PERPETUALLY GUARANTEED. With Jacobs No. 1B Geared Chuck:

No.

D-40—Drill Complete

D-40K—Extra 1/4" Chuck Keys.

Standard Duty 1/2" Drill



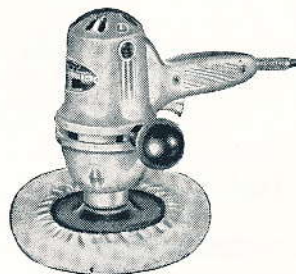
Today's greatest buy. Has motor power, frame, gears, chuck and other wanted features of drills selling for much higher price. Selected by contractors for heavy timber drilling, for plant maintenance work, in automobile service shops, by plumbers, electricians and heavy machinery installers. With Jacobs 33 B geared chuck.

No.

D-55 —Drill Complete

D-55K—Extra 1/2" Chuck Key

"Cummins" Polisher



The newest and latest thing in a streamlined die-cast aluminum auto polisher. It has these exclusive features; free speed of 1300 RPM; 6" backing pad; patented swivel side handle, capable of being positioned at any point for convenience of right or left handed operation; and perfect balance, will not tip over, will not mar or scratch the surface.

All of these features at a new low price. Comes complete with backing pad, polishing bonnet and container of general utility wax.

No. P-105

No. P-105B—Bonnet only.

Drill Grinding Attachment



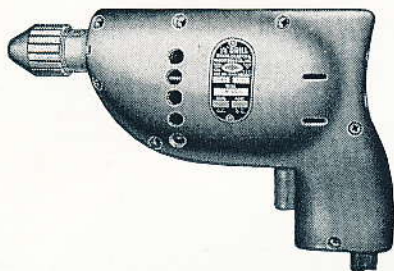
Precision built—fast and accurate—positive adjustment—moderately priced. Silverlustre finished and individually boxed. Never before has there been a tool of such precision construction and design, yet so moderate in cost.

For correctly resharpening drills of the following sizes:

- from $\frac{1}{8}$ " to $\frac{3}{4}$ " Fractional
- from No. 1 to No. 30 Number Size
- from A to Z Letter Size
- from 3.0 to 19.0 Millimeter

No. DG-825

$\frac{1}{4}$ " Pistol-Grip Drill



A new streamlined handy drill in $\frac{1}{4}$ " size. Has capacity in steel up to $\frac{1}{4}$ ". R.P.M. no load, 2250, full load 1350. Universal A.C.-D.C. motor, 115 volt, 1.5 amps. Length overall $7\frac{3}{4}$ ". Net weight $3\frac{1}{4}$ lbs. Is equipped with geared chuck. Has trigger action.

No. D-41 Drill Complete.

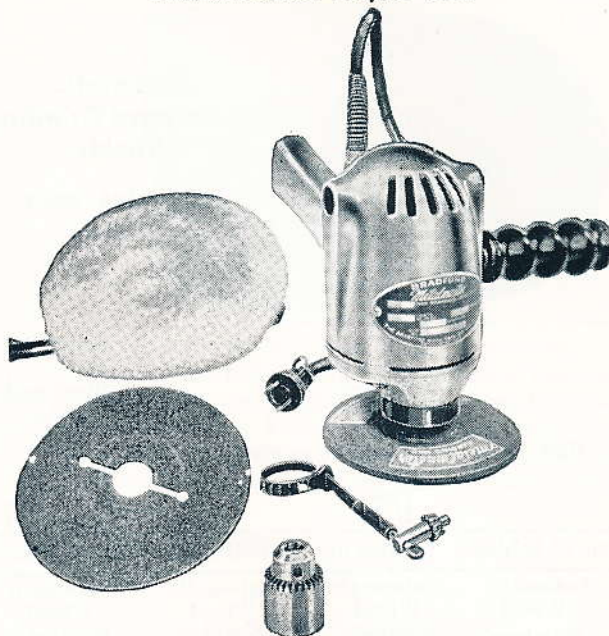
Bench Grinder



$\frac{1}{2}$ Horsepower, equipped with first grade ball bearings and powered with a capacitor start, and capacitor run motor. Note the wide clearance between wheel and motor frame, wheels are larger in diameter permitting across the face grinding. Has first grade grinding wheels $6" \times \frac{3}{4}" \times \frac{1}{2}"$ 1—coarse and 1—fine.

No. BG-6 Bench Grinder $\frac{1}{2}$ HP. 1 Ph. 60 Cyc. 3400 RPM.

Metalmaster Triple Tool



Here's another outstanding example of modern Bradford tool engineering. One tool with three work applications!

The TRIPLE TOOL is a 5" disc sander, polisher, and $\frac{1}{4}$ " drill combined. It's light and compact, yet rugged and powerful. Design permits easy handling in any position. Push button locks spindle for quick, easy change from sander to polisher to drill. The Triple Tool comes completely furnished with sanding discs, backing pad, wool bonnet, 7B Jacobs chuck and key with holder. It's ideal for light or intermittent sanding, polishing and drilling wood, metal and plastics.

No.

M-341—Triple Tool complete as illustrated

SD-60—60 Grit Disc only

SD-80—80 Grit Disc only

M-341B—Polishing Bonnet only

Fender Flange Pliers



This tool is for clamping a broken fender flange while welding. In body work it is used for holding reinforcements or new panels in place until tack welded.

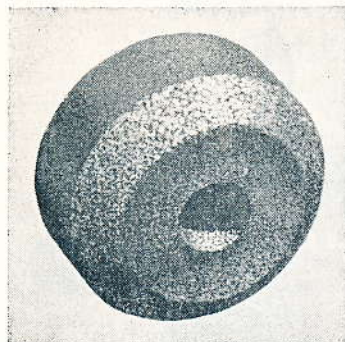
No. BT-1073 Fender Flange Plier.

Drip Moulding Pliers



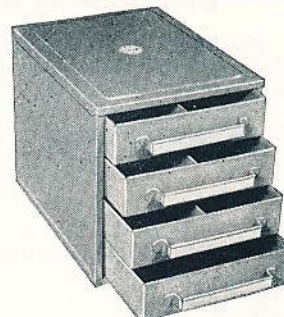
Here is a tool which will readily do the job of opening up and reshaping damaged drip mouldings. It applies the same principle to straightening a damaged drip moulding as that used to straighten the face of a bumper in an arbor press.

No. BT-1072 Drip Moulding Plier.



**Automatic
All-Purpose Grinding
Wheels**
for valve seat
grinding

Small Parts Box



A very convenient box for storage of small parts and fittings, so that you will know where they are when you need them. This box consists of four drawers, three of which are partitioned into six separate compartments, with the partitions sealed so that small parts cannot slip under them. The fourth and bottom drawer is a full drawer to be used as your needs require. This box is finished in our new "Coca Cola" red enamel, smooth, attractive and easy to keep clean. Drawer handles are constructed so as to allow for identification markers for contents.

No. MB-4—Small Parts Box

**Deluxe
Midget
Box**

A small heavy-duty tool chest, finished in smooth "Coca Cola" red.

Heavy Gauge Metal
Top-Slide Compartment

Rugged Clamp-type Lock

Green Flox Interior Full Hinge



The features of advantage to this box are many. It is the ideal box for ignition, carburetor, generator, etc. tools. Small, but large enough to have adequate tools along for the job.
No. MB-10 Size—12" Length — 7 1/4" Depth — 3 1/2" Height.

Ignition Tools Box

A compact, attractive and sturdy box, for your storage of ignition tools, and small socket sets and attachments. This box is finished in our new smooth "Coca Cola" red enamel. It has a top compartment for storage of Sockets and Attachments, and a full drawer below for all ignition wrenches, etc. It gives you your complete ignition tune-up tools in the palm of your hand. It is constructed in the same sturdy manner as all larger tool boxes, built to stand the gaff.

Size—8" Long, 4" Wide and 2" Deep.
No. MB-1—Ignition Tools Box

Hall	Keystone Kwik-Way K. O. Lee Skilsaw Sioux Thor U. S.	Kwik-Way	Black and Decker	K. O. Lee	Van Dorn
Diam. 1" Bsh'ng	1 1/8" Bsh'ng	1 1/8" Bsh'ng	1 1/8" Bsh'ng	1 1/8" Bsh'ng	1 1/8" Bsh'ng
Automatic Wheel Numbers	Automatic Wheel Numbers	Automatic Wheel Numbers	Automatic Wheel Numbers	Automatic Wheel Numbers	Automatic Wheel Numbers
1 3/8" *B-37-VS	B-38-VS	B-39-VS	B-40-VS		
1 1/2" *B-49-VS	B-50-VS	B-51-VS	B-52-VS		
1 5/8" *B-73-VS	B-74-VS	B-75-VS	B-76-VS		
1 3/4" *B-97-VS	B-98-VS	B-99-VS	B-100-VS		
1 7/8" *B-121-VS	B-122-VS	B-123-VS	B-124-VS		
2" B-145-VS	B-146-VS	B-147-VS	B-148-VS		
2 1/8" B-171-VS	B-172-VS	B-173-VS	B-174-VS		
2 1/4" B-195-VS	B-196-VS	B-197-VS	B-198-VS		

Other sizes than listed above are available through your MAC Man.

These valve seat grinding wheels will both rough grind and finish grind, hard or soft valve seats. They are ALL-PURPOSE, one wheel will do a complete grinding job. It is not necessary to stop grinding to change wheels.

Automatic Valve Refacer Wheels

One wheel rough grinds both hard and soft valves, producing a fine finish. Works equally well on wet or dry grinding and with all types of coolants.

Size—Inches	Automatic Wheel No.	Wheel Shape
4 x 3/4 x 7/8	B-476-O	Offset
4 x 1 x 5/8	B-480-O	Offset
4 1/2 x 1 x 5/8	B-495-R	Recessed

See your MAC Man for these and other sizes which are not listed.



Royal DeLuxe Tool Chest and Roll-Away

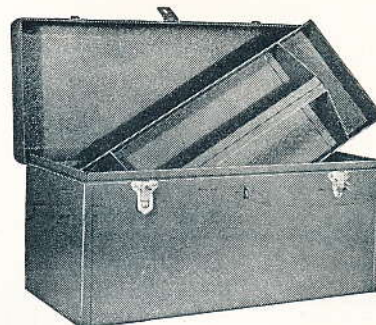


The most attractive, sturdy and durable cabinet on the market. Finished in our smooth "Coca Cola" red enamel finish, which keeps cabinet always attractive in appearance and free from soiling grease stains. All drawers equipped with rollers and stops. Panel doors and drawers completely sealed. This cabinet is a reinforced unit complete with drawer divisions to accommodate tools of every description. **ROLL-AWAY** has three drawers and storage compartment, both with separate locks. Valve Holder on right side, and handle on left side for easy movement. Roomy compartment at bottom for large tools, with sliding lid for upper and lower compartments. Nickel finish hardware. On large, rubber, heavy duty casters, for easy movement. **TOOL CHEST** has six drawers and top compartment which can be used with or without Tote Tray. Nickel finish handles and drawer pulls. Folding top and cover which lays back and out of the way when open, and completely seals the six drawers when closed, and equipped with lock for locking complete chest. **ROLL-AWAY AND CHEST** may be purchased as a complete unit—or separately.

DIMENSIONS

No.		Length	Depth	Height
MB-25	DeLuxe Tool Chest	26"	12"	14½"
MB-30	Royal DeLuxe Roll-Away	26½"	18"	32½"
TT-35	Tote Tray	18⅝"	7⅝"	2"
MB-30C	H. D. Caster (Set of 4)			
MB-30S	Std. Caster (Set of 4)			
MB-30D	Drawer Dividers for MB-30			
MB-25D	Drawer Dividers for MB-25			

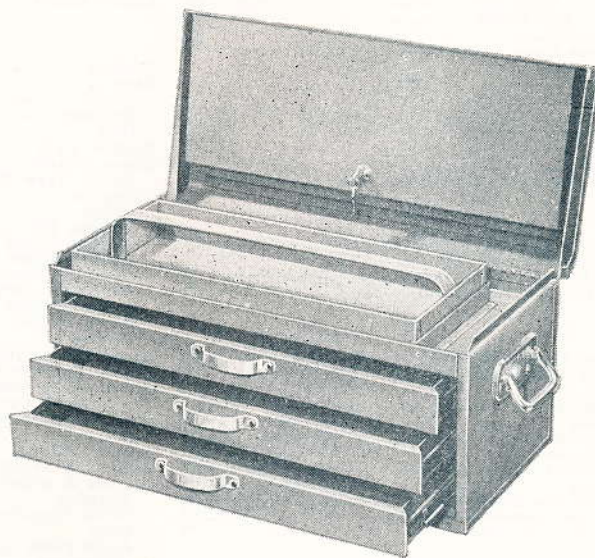
Mechanic's Box



All-Purpose streamlined Box with round corner cover. Electrically welded seams throughout. Added features include two heavy suitcase bolts, hasp and staple, and substantial handle for convenient carrying. Full size lift-out tray with formed handle and three compartments providing additional space. Finished in smooth "Coca Cola" red enamel. Packed four to standard carton.

No. MB-6—Size 20"x8½"x9½"

General Purpose Bench-Size Tool Chest



A very attractive, sturdy and durable Tool Chest. Finished in smooth "Coca Cola" red enamel, easy to keep clean and neat, free from grease stains. Equipped with three drawers with sturdy slides and stops . . . All three drawers are 1¾" deep by 20¼" long, by 8¾" depth from front to rear. Top section is 22½" in length, with a clearance of 3¼". This section is equipped with a permanent divider for sockets, and also has a full size tote tray, size 18½" by 7¾" with divider strip in tray for sockets. Top section is 10" from front to rear. Has nickel finish drawer pulls and sturdy carrying handles on both sides. Reinforced folding cover which lies back out of the way when open and completely seals and locks the total chest when closed. Equipped with sturdy lock and key. This is a rugged box, of heavy gauge built to take a lot of punishment.

No.		Length	Depth	Height
MB-26	Tool Chest Complete	22½"	10"	10½"
TT-26	Tote Tray only.			

INDEX

Item	Page	Item	Page	Item	Page
A		L		S (Cont'd)	
Air Gauges	29	Line-up Bars	13	IHC Trucks Drive — Shaft Sockets	23
Air Line Tools	29, 48	M		Impact	22
All-Spray Gun	64	Magnetic Pick-up Tool	50	Ratchet	21
Armature Lathe	37	Metal Boxes	38, 70, 71	Sets	20, 22
Awls	12, 40	Metal Cutters	52	Sliding T Handle	22
Axle Dies	49, 63	Mirrors	65	Speed Handles	21
B		Motophone	65	Spinner Sockets	23
Battery Tools		N		Standard	19, 22
Cell Testing	31	Nut Drivers	48	Universals	20
Lifters	28, 29, 61, 47	O		Giant Heavy Duty Sockets & Attachments, 1/2" Drive	23
Post & Terminal Cleaner	28, 66	Oilers	51	Adaptors	23
Bearing Splitters	69	P		Deep	24
Bench Grinder	69	Packing Hook	44	Extensions	24
Body Tools	44, 54, 55, 67, 69	Phillips Screw Starter	53	Flex Handle	25
Bolt Cutters	42	Piston Ring Tools		Ratchet	24
Brake Tools		Piston Pin Remover	53	Sets	25
Bendix	13, 14	Piston Ringer	43	Sliding Bar T Handle	24
Clips	49	Ring Compressor	43	Standard	24, 25
Eccentric Wrench	8	Ring Groove Tool	43	Soldering Irons	47
Spring Tong	13	Pitman Arm Spreader	49	Soldering Paddles	66
Spring Tool	13, 36	Pliers	26, 27, 28, 41, 44	Spring Spreader	49
Brushes		Polishers	59, 60, 61, 62	Stamps (letter & figure)	53
Carbon	37, 48	Pullers	10, 11, 12	Steel Rules	67
Gasoline	37	Putty Knives	47	Stud Remover	50
Hand	37	R		T	
Wheel	37	Reamers		Tap & Reamer Wrenches	63, 64, 65
Budd Wheel Wrench	34	Burring	47	Tapes — Measuring	33
Bushing Drivers		Chrysler By-Pass	51	Tappet Adjusting Tool	60
Drive-M-All Set	57	Expansion	56	Taps & Dies	49, 63, 64, 65
Ford Shackle	14	Ridge	56, 57	Thread Restorers	49, 56, 64
Step-down	15	Solid	56, 57	Tie Rod Spreaders	49
Threaded Bushing	47	Valve Guide	56	Tire Tools	46, 47
C		Repairman's Hand Reamer	64	Torchlighter Flints	34
Carbon Scraper	15, 48	Rivet Busters	13	Torchlighters	34
Carburetor Tool Set	38	Rubber Mallet	46	Torque Wrenches	68
Caster & Camber Gauge	60	S		Trouble Lamps	51
Chevrolet Pan Tool	31	Sanders	69	Tube Cutter	51
Chevrolet Pan Tool	9, 10, 11, 12	Saws		Tube Flaring Tool	51, 53
Chisels	49	Blades	34	Tune Up Tools	
Clamps	49	Hacksaw	34	Compression Tester	52, 53
Clevis Pin Spreader	49	Hole	34	Distributor	51, 52
Clutch Aligning Tool	56	Scratch Awls	12, 40	Timing Light	30, 52
Contact Point Tool	38	Screw Drivers		Vacuum Gauge	52
Cotter Key Puller	15	Clutch Type Bits	4	U	
Creepers	67	Handles	3	Upholsterers' Tools	44, 54
Creepers Seats	67	Offset	38	V	
D		Phillips Bit	4	Valve Grinder Wheels	70
Dies	63, 64, 65	Phillips Offset & Angle	4	Valve Refacer Wheels	70
Distributor Tools	52, 53	Phillips Offset & Angle Drivers	4	Valve Remover	14
Door Tools	44, 66	Regular Type	2, 3, 50	Valve Tools	41, 42
Drills	32, 68, 69	Reversible Screw Drivers	4	Ford Keeper Extractor	66
Drill Grinding Attachment	69	Screw Holding Type	50	Ford Lock Remover	14
E		Screw Starter	50	Guide Cleaners	41
Electric Marking Pencil	47	Testing	51	Key Replacers	41
Electric Testing Tools	30, 52	Screw Driver Holders	33	Lifters	41, 42
Eye Bolts	15	Screw Extractors	13, 32	Pullers	42
Ezy-Out Extractors	32	Screw Pitch Gauge	64	Spring Compressors	41
F		Sheet Metal Cutter	55	Valve Grinders	41, 42
Feeler Gauges & Blades	35, 36	Snap Ring Pliers	26, 41	W	
Feeler Gauge Holders	36	Snips	31	Water Savers	67
Files		Socket Holders	33	Welding Tip Set	48
Bastard	55	Sockets & Attachments 1/4" Sq. Dr.	38, 39	Welders Goggles	40
Body	55	Sockets & Attachments 3/8" Sq. Dr.	17	Wheel Alignment Gauge	37
Flexstone	37	Adaptors	17	Wheel Pullers	59, 60, 61
Handles	55	Buick Dynaflo, 1/2"	17	Wire Brushes	37
Holdings	55	Deep	16	Wire Stripper	30
Point	55	Eight Point	17	Wr	
Finger-Tip Controller	65	Extensions	18	Adjustable	40
Flexible Drivers & Fingers	39, 44, 50	Flex Box	18	Angle	9
Flywheel Turners	29	Flex Handle	17	Box	6, 7
G		Impact	22	Brake	8
Gasket Clips	66	Ratchet	18	Carburetor	23
Gasket Punch Set	65	Sets	19, 20	Caster & Camber	23
Grease Tools	64	Sliding T Handle	18	Chrysler Fluid Drive	5
Grinding Wheel & Dressers	33, 48	Speed Handle	18	Combination	4, 5
H		Standard	16, 19	Cylinder Head	15
Hacksaws & Blades	34	Universals	17	Distributor	5, 7, 15
Hammers	31, 45	Weatherhead	17	Drain Plug	45
Hammers — Body	54	Windshield Wiper, Nash	18	Eccentric	8
Hammer Handles	45	Sockets & Attachments 1/2" Sq. Dr.		Fan Bolt	8
Hammer Wedges	45	Adaptors	23	Flare Nut	8
Head Guide Tool	67	Anchor Bolts	21	Flex Box	18
Head Bolt Riveter	14	Brakes Socket for Kaiser & Nash	23	Head Bolt	15
Hub Cap Tool	33	Cadillac Con. Rod 1/2"	22	Hex Set Screw	40
I		Chrysler Heater Switch	23	Ignition	40
Ignition Tools & Sets	39, 40	Chrysler Shackle Bolt 3/8"	23	Instrument Panel	23
Impact Wrenches	29	Chrysler Wing Nut	21	Manifold Wrench	7
J		Deep	20	Oil Pressure Unit	15
Jacks		Drag Link	21	Open End	8, 9
Hood	33	Drain Plug	20	Panel	14
Jacobs Chucks & Keys	38	Eight Point	21	Pipe	40
K		Extensions	21	Ratchet Box	40
Knives	47, 66	Flex Handle	21	Spinner	23
		Ford Con. Rod 1/2"	22	Starter	7, 15
		Head Bolt Sockets, 1/4" Drive	23	Tappet	9
				Vise Grip	28
				Wheel Nut (4-way)	45
				Windshield Wiper	28

